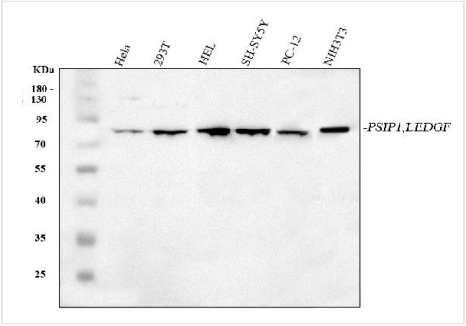
PSIP1 Antibody – Rabbit Polyclonal

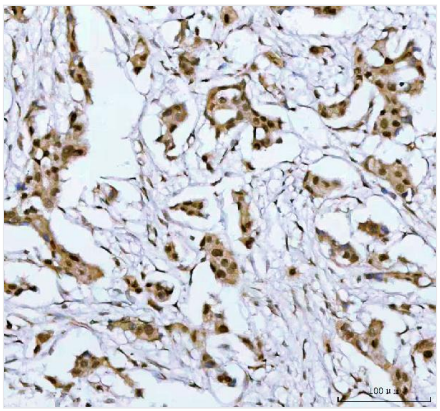
PRODUCT OVERVIEW

Product Name	PSIP1, Polyclonal Antibody
Full Product Name	Anti-PSIP1 Antibody Picoband
Product Gene Name	anti-PSIP1 antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	37,268 Da
OMIM	603620
3D Structure	ModBase 3D Structure for O75475
Immunogen	E coli-derived human PSIP1 recombinant protein (Position: D280-N530).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-PSIP1 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PSIP1 antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Western Blot (WB), Flow Cytometry (FC/FACS)

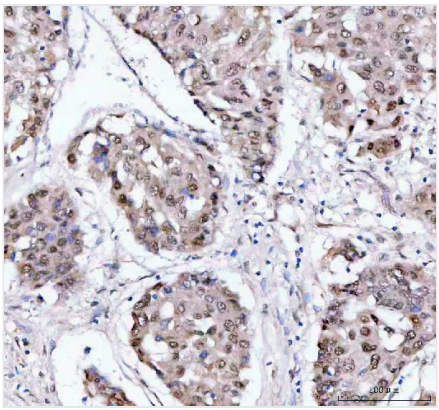
Application Notes for anti-PSIP1 antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PSIP1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-PSIP1 antibody	1. Cherepanov, P., Ambrosio, A. L. B., Rahman, S., Ellenberger, T., Engelman, A. Structural basis for the recognition between HIV-1 integrase and transcriptional coactivator p75. Proc. Nat. Acad. Sci. 102: 17308-17313, 2005.2. Ciuffi, A., Llano, M., Poeschla, E., Hoffmann, C., Leipzig, J., Shinn, P., Ecker, J. R., Bushman, F. A role for LEDGF/p75 in targeting HIV DNA integration. Nature Med. 11: 1287-1289, 2005. 3. Ge, H., Si, Y., Roeder, R. G. Isolation of cDNAs encoding novel transcription coactivators p52 and p75 reveals an alternate regulatory mechanism of transcriptional activation. EMBO J. 17: 6723-6729, 1998.
Other Notes	Small volumes of anti-PSIP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PSIP1 purchase	MBS1758249 is an antibody targeting PSIP1. Also known as Anti-PSIP1 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PSIP1 antibody
Figure 1. Western blot analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human HEL whole cell lysates,Lane 4: human SH-SY5Y whole cell lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PSIP1 antigen affinity purified polyclonal antibody (#MBS1758249) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for PSIP1 at approximately 85 kDa. The expected band size for PSIP1 is at 60 kDa.

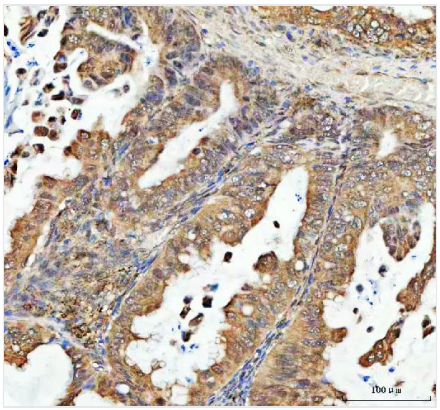


Immunohistochemistry (IHC) of anti-PSIP1 antibody
Figure 2. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



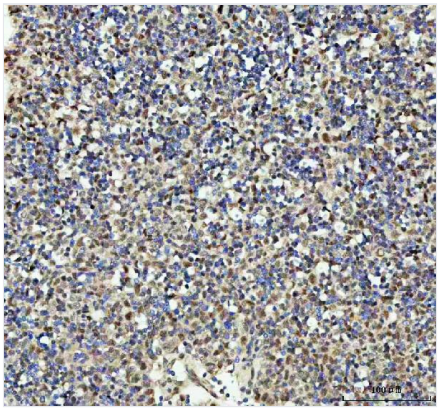
Immunohistochemistry (IHC) of anti-PSIP1 antibody

Figure 3. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



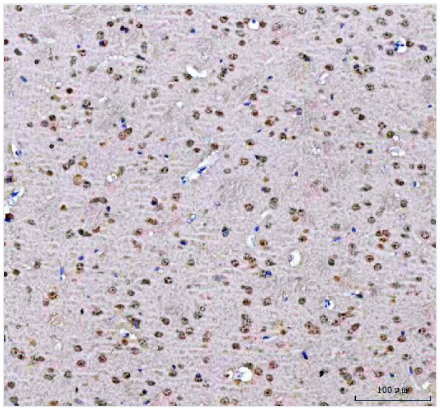
Immunohistochemistry (IHC) of anti-PSIP1 antibody

Figure 4. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



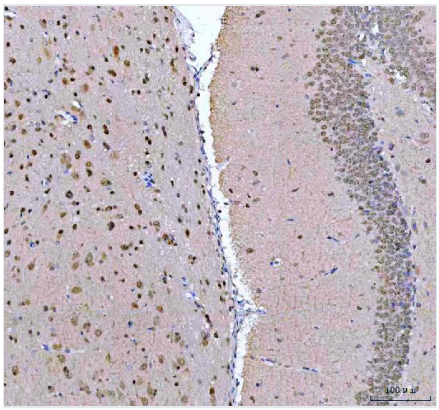
Immunohistochemistry (IHC) of anti-PSIP1 antibody

Figure 5. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.

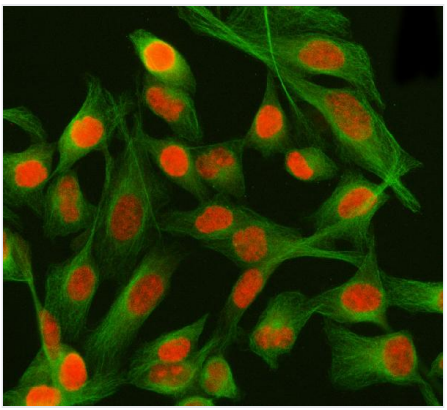


Immunohistochemistry (IHC) of anti-PSIP1 antibody

Figure 6. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-PSIP1 antibody
Figure 7. IHC analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249).PSIP1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PSIP1 Antibody (MBS1758249) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunofluorescence (IF) of anti-PSIP1 antibody
Figure 8. IF analysis of PSIP1 using anti-PSIP1 antibody (MBS1758249) and anti-Beta Tubulin antibody (M01857-3).PSIP1 was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PSIP1 Antibody (MBS1758249) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSIP1. It may not necessarily be applicable to this product.

NCBI GI #	190014588
NCBI GeneID	11168
NCBI Accession #	NP_001121689.1
UniProt Primary Accession #	O75475
UniProt Secondary Accession #	O00256; O95368; Q6P391; Q86YB9; Q9NZI3; Q9UER6; D3DRI9
UniProt Related Accession #	O75475
GenBank Nucleotide #	NM_001128217.2
NCBI Official Full Name	PC4 and SFRS1-interacting protein isoform 2
NCBI Official Synonym Full Names	PC4 and SFRS1 interacting protein 1
NCBI Official Symbol	PSIP1
NCBI Official Synonym Symbols	p52; p75; PAIP; DFS70; LEDGF; PSIP2
UniProt Protein Name	PC4 and SFRS1-interacting protein
UniProt Synonym Protein Names	CLL-associated antigen KW-7; Dense fine speckles 70 kDa protein; DFS 70; Lens epithelium-derived growth factor; Transcriptional coactivator p75/p52
Protein Family	Lens epithelium-derived growth factor
UniProt Gene Name	PSIP1
UniProt Synonym Gene Names	DFS70; LEDGF; PSIP2; DFS 70
UniProt Entry Name	PSIP1_HUMAN
NCBI Protein Information	PC4 and SFRS1-interacting protein

UniProt Comments for PSIP1	LEDGF: Transcriptional coactivator involved in neuroepithelial stem cell differentiation and neurogenesis. Involved in particular in lens epithelial cell gene regulation and stress responses. May play an important role in lens epithelial to fiber cell terminal differentiation. May play a protective role during stress-induced apoptosis. Isoform 2 is a more general and stronger transcriptional coactivator. Isoform 2 may also act as an adapter to coordinate pre-mRNA splicing. Cellular cofactor for lentiviral integration. Monomer. Interacts with IFRD1/PC4. Isoform 2 interacts with SFRS1. Isoform 1 interacts POGZ and CDCA7L. Isoform 1 interacts with lentiviral integrase and acts as a chromatin tethering factor to the chromosomal DNA. Isoform 1 interacts in particular with the human HIV-1 integrase protein (HIV-1 IN), determining its nuclear localization, its tight association with chromatin and its protection from the proteasome. Isoform 1 interacts also with HIV-2 IN. Isoform 2 does not interact with HIV-1 IN. Widely expressed. Expressed at high level in the thymus. Expressed in fetal and adult brain. Expressed in neurons, but not astrocytes. Markedly elevated in fetal as compared to adult brain. In the adult brain, expressed in the subventricular zone (SVZ), in hippocampus, and undetectable elsewhere. In the fetal brain, expressed in the germinal neuroepithelium and cortical plate regions. Belongs to the HDGF family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 9p22.3 Cellular Component: cytosol; nucleoplasm Molecular Function: protein binding Biological Process: nuclear mRNA 5'-splice site recognition; nuclear transport; response to heat; response to oxidative stress
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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