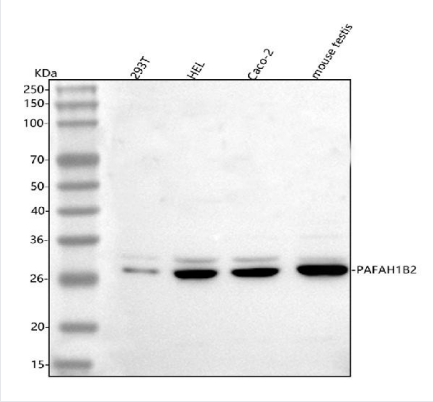
PAFAH1B2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

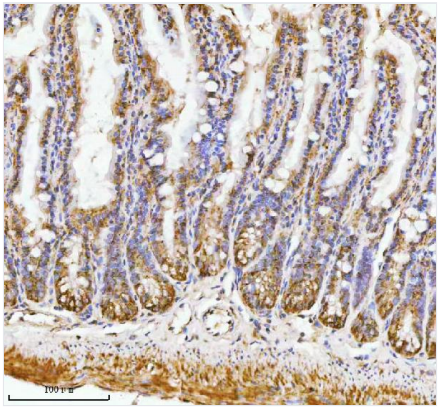
Product Name	PAFAH1B2, Polyclonal Antibody
Full Product Name	Anti-PAFAH1B2 Antibody Picoband
Product Gene Name	anti-PAFAH1B2 antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 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	22,734 Da
OMIM	602508
3D Structure	ModBase 3D Structure for P68402
Immunogen	E coli-derived human PAFAH1B2 recombinant protein (Position: D5-D190). Human PAFAH1B2 shares 99.5% amino acid (aa) sequence identity with both mouse and rat PAFAH1B2.
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-PAFAH1B2 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-PAFAH1B2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)

Application Notes for anti-PAFAH1B2 antibody	WB: 0.25-0.5ug/ml, Human, Mouse IHC: 2-5ug/ml, Mouse, Rat ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PAFAH1B2 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-PAFAH1B2 antibody	1. Adachi, H., Tsujimoto, M., Hattori, M., Arai, H., Inoue, K. Differential tissue distribution of the beta- and gamma-subunits of human cytosolic platelet-activating factor acetylhydrolase (isoform 1). Biochem. Biophys. Res. Commun. 233: 10-13, 1997.2. Moro, F., Arrigo, G., Fogli, A., Bernard, L., Carrozzo, R. The beta and gamma subunits of the human platelet-activating factor acetyl hydrolase isoform Ib (PAFAH1B2 and PAFAH1B3) map to chromosome 11q23 and 19q13.1, respectively. Genomics 51: 157-159, 1998.3. Tarricone, C., Perrina, F., Monzani, S., Massimiliano, L., Kim, M.-H., Derewenda, Z. S., Knapp, S., Tsai, L.-H., Musacchio, A. Coupling PAF signaling to dynein regulation: structure of LIS1 in complex with PAF-acetylhydrolase. Neuron 44: 809-821, 2004.
Other Notes	Small volumes of anti-PAFAH1B2 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 PAFAH1B2 purchase	MBS1758786 is an antibody targeting PAFAH1B2. Also known as Anti-PAFAH1B2 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



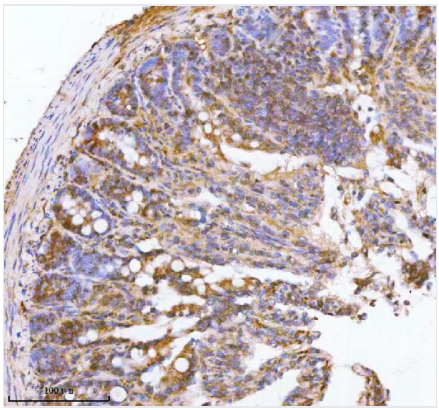
Western Blot (WB) of anti-PAFAH1B2 antibody

Figure 1. Western blot analysis of PAFAH1B2 using anti-PAFAH1B2 antibody (MBS1758786).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 293T whole cell lysates,Lane 2: human HEL whole cell lysates,Lane 3: human Caco-2 whole cell lysates,Lane 4: mouse testis tissue 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-PAFAH1B2 antigen affinity purified polyclonal antibody (#MBS1758786) 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 PAFAH1B2 at approximately 26 kDa. The expected band size for PAFAH1B2 is at 26 kDa.



Immunohistochemistry (IHC) of anti-PAFAH1B2 antibody

Figure 2. IHC analysis of PAFAH1B2 using anti-PAFAH1B2 antibody (MBS1758786).PAFAH1B2 was detected in a paraffin-embedded section of mouse colon 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-PAFAH1B2 Antibody (MBS1758786) 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-PAFAH1B2 antibody
Figure 3. IHC analysis of PAFAH1B2 using anti-PAFAH1B2 antibody (MBS1758786).PAFAH1B2 was detected in a paraffin-embedded section of rat colon 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-PAFAH1B2 Antibody (MBS1758786) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAFAH1B2. It may not necessarily be applicable to this product.

NCBI GI #	4505585
NCBI GeneID	5049
NCBI Accession #	NP_002563
UniProt Primary Accession #	P68402
UniProt Secondary Accession #	O00687; Q29459; Q6IBR6; A8DPS5; A8DPS6; A8DPS7; E9PEJ5; E9PLP3
UniProt Related Accession #	P68402
GenBank Nucleotide #	NM_002572
NCBI Official Full Name	platelet-activating factor acetylhydrolase IB subunit beta isoform a
NCBI Official Synonym Full Names	platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)
NCBI Official Symbol	PAFAH1B2
NCBI Official Synonym Symbols	HEL-S-303
UniProt Protein Name	Platelet-activating factor acetylhydrolase IB subunit beta
UniProt Synonym Protein Names	PAF acetylhydrolase 30 kDa subunit; PAF-AH 30 kDa subunit; PAF-AH subunit beta; PAFAH subunit beta
Protein Family	Platelet-activating factor acetylhydrolase
UniProt Gene Name	PAFAH1B2
UniProt Synonym Gene Names	PAFAHB; PAF-AH 30 kDa subunit; PAFAH subunit beta
UniProt Entry Name	PA1B2_HUMAN
NCBI Protein Information	platelet-activating factor acetylhydrolase IB subunit beta; PAF acetylhydrolase 30 kDa subunit; PAF-AH 30 kDa subunit; PAF-AH subunit beta; PAF-AH1b alpha 2 subunit; PAFAH subunit beta; epididymis secretory protein Li 303; intracellular platelet-activatin

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