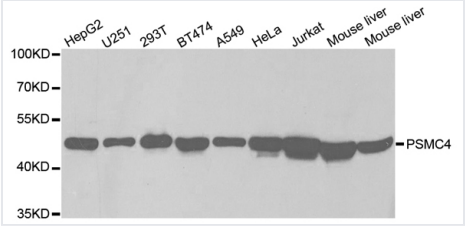
PSMC4 Antibody – Rabbit Polyclonal

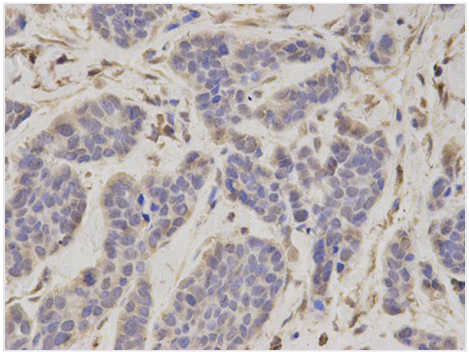
PRODUCT OVERVIEW

Product Name	PSMC4, Polyclonal Antibody
Full Product Name	PSMC4 Antibody
Product Gene Name	anti-PSMC4 antibody
Product Synonym Names	S6; RPT3; TBP7; TBP-7; MIP224
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total PSMC4 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	43,508 Da
OMIM	602707
3D Structure	ModBase 3D Structure for P43686
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PSMC4.
Target Name	PSMC4
Product Categories/Family for anti-PSMC4 antibody	Total protein Ab
Applications Tested/Suitable for anti-PSMC4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PSMC4 antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200
Related Product Information for anti-PSMC4 antibody	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. This gene encodes a member of the triple-A family of ATPases that is a component of the 19S regulatory subunit and plays a role in 26S proteasome assembly. The encoded protein interacts with gankyrin, a liver oncoprotein, and may also play a role in Parkinson's disease through interactions with synphilin-1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Other Notes	Small volumes of anti-PSMC4 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.

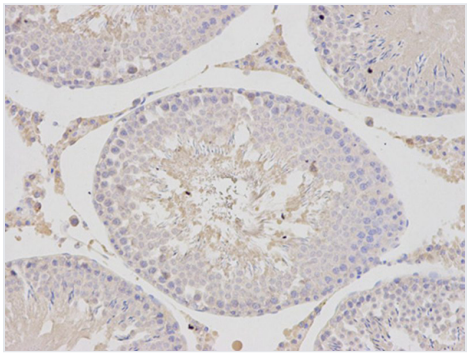
Searchable Terms for PSMC4 purchase	MBS9401243 is an antibody targeting PSMC4. Also known as PSMC4 Antibody. Reactive in Human. Host: Rabbit.



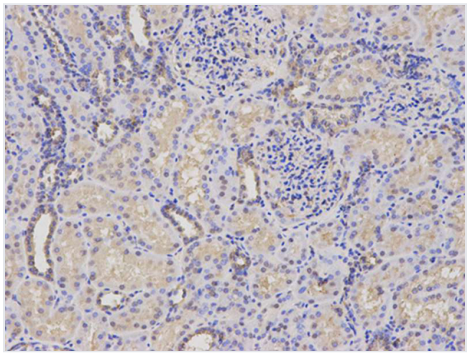
Western Blot (WB) of anti-PSMC4 antibody
Western blot analysis of extracts of various cell lines, using PSMC4 antibody.



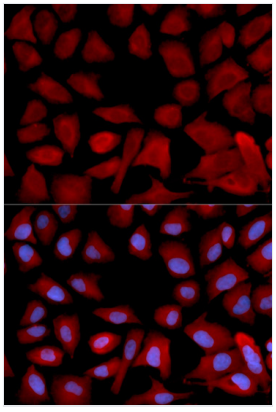
Immunohistochemistry (IHC) of anti-PSMC4 antibody
Immunohistochemical analysis of paraffin-embedded human breast cancer using PSMC4 antibody at dilution of 1:100 (400x lens).



Immunohistochemistry (IHC) of anti-PSMC4 antibody
Immunohistochemical analysis of paraffin-embedded human kidney using PSMC4 antibody at dilution of 1:100 (200x lens).



Immunohistochemistry (IHC) of anti-PSMC4 antibody
Immunohistochemical analysis of paraffin-embedded rat testis using PSMC4 antibody at dilution of 1:100 (200x lens).



Immunofluorescence (IF) of anti-PSMC4 antibody
Immunofluorescence analysis of U2OS cell using PSMC4 antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMC4. It may not necessarily be applicable to this product.

NCBI GI #	5729991
NCBI GeneID	5704
NCBI Accession #	NP_006494.1
UniProt Primary Accession #	P43686
UniProt Secondary Accession #	Q96FV5; Q9UBM3; Q9UEX3

UniProt Related Accession #	P43686
GenBank Nucleotide #	NM_006503.3
NCBI Official Full Name	26S protease regulatory subunit 6B isoform 1
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 4
NCBI Official Symbol	PSMC4
NCBI Official Synonym Symbols	S6; RPT3; TBP7; TBP-7; MIP224
UniProt Protein Name	26S protease regulatory subunit 6B
UniProt Synonym Protein Names	26S proteasome AAA-ATPase subunit RPT3; MB67-interacting protein; MIP224; Proteasome 26S subunit ATPase 4; Tat-binding protein 7; TBP-7
Protein Family	26S protease regulatory
UniProt Gene Name	PSMC4
UniProt Synonym Gene Names	MIP224; TBP7; TBP-7
UniProt Entry Name	PRS6B_HUMAN
NCBI Protein Information	26S protease regulatory subunit 6B
UniProt Comments for PSMC4	RPT3: an ATPase subunit of the 26S proteasome. A member of the triple-A family of ATPases which have a chaperone-like activity. Interacts with an orphan member of the nuclear hormone receptor superfamily highly expressed in liver, and with gankyrin, a liver oncoprotein. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Two splice variant isoforms have been described. Protein type: Nuclear receptor co-regulator; Protease; Proteasome complex Chromosomal Location of Human Ortholog: 19q13.11-q13.13 Cellular Component: proteasome complex; nucleoplasm; membrane; cytoplasm; inclusion body; nucleus; cytosol Molecular Function: protein binding; ATPase activity; ATP binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; blastocyst development; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; protein polyubiquitination; viral reproduction; apoptosis; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; proteolysis; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; regulation of apoptosis; antigen processing and presentation of peptide antigen via MHC class I; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I; gene expression; mitotic cell cycle; regulation of amino acid metabolic process; G1/S transition of mitotic cell cycle; negative regulation of apoptosis
Research Articles on PSMC4	**1.** Saquinavir-NO inhibits activation of S6 protein in androgen-dependent prostate cancer cells.
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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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/psmc4/9401243