

Mouse anti-Human 26S proteasome non-ATPase4 Monoclonal Antibody | anti-PSMD4 antibody

26S proteasome non-ATPase regulatory subunit 4

CATALOG # AAA215405	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot
-------------------------------	----------------------	----------------------------	-------------------------------------

PRODUCT SYNONYMS

26S proteasome non-ATPase4; Monoclonal Antibody; 26S proteasome non-ATPase regulatory subunit 4; 26S proteasome regulatory subunit RPN10; 26S proteasome regulatory subunit S5A; AF; AF-1; anti-PSMD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	CPTC-PSMD4-3
Specificity	In eukaryotic cells, selective breakdown of cellular proteins is ensured by two distinct pathways. First, appropriate proteins are tagged for degradation by ubiquitination. Second, these multiubiquitinated proteins are degraded by the highly selective 26S Proteasome protein-destroying machinery. At specific stages of development, embryo- and tissue-specific components of the 26S Proteasome are formed, which are termed Rpn10a through Rpn10e, or alternatively pUb-R2 through pUb-R5. All members of this family can be generated by a single Rpn10 gene by developmentally regulated alternative splicing. The pUb-R2 subunit, originally identified as S5a (also designated antiseecretory factor and multiubiquitin chain binding protein) is ubiquitously expressed and may perform proteolysis constitutively in a wide variety of cells. pUb-R4 and pUb-R5 may have embryo- or tissue-specific expression and may play specialized roles in early embryonic development.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	377
Applicable Applications for anti-PSMD4 antibody	WB (Western Blot)
Immunogen	Recombinant full-length Human PSMD4 protein
Cellular Localization	Nucleus and Cytoplasm
Hu-chromosome Location	1q21.3
Positive Control	Jurkat or HepG2 cells. Liver tissue lysate. Human liver, Tonsil or kidney.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using 26S proteasome non-ATPase regulatory subunit 4 Mouse Monoclonal Antibody (CPTC-PSMD4-3). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



WB (Western Blot)

Western Blot Analysis of Liver tissue lysate using PSMD4Mouse Monoclonal Antibody (CPTC-PSMD4-3).



SDS-PAGE

SDS-PAGE Analysis Purified PSMD4Mouse Monoclonal Antibody (CPTC-PSMD4-3). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	Lonroth, I, et al. 1986. Biochim.Biophys. Acta 883: 138-144.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	1709796
NCBI GeneID	5710
UniProt Accession #	P55036
Molecular Weight	50kDa
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 4
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 4
NCBI Official Symbol	PSMD4
NCBI Official Synonym Symbols	AF; ASF; S5A; AF-1; MCB1; Rpn10; pUB-R5
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 4
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 4
UniProt Gene Name	PSMD4
UniProt Synonym Gene Names	MCB1; AF; ASF
UniProt Entry Name	PSMD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.