Datasheet for ABIN7600663

anti-PSMD2 antibody (AA 219-908)

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Overview

Quantity:	100 µg
Target:	PSMD2
Binding Specificity:	AA 219-908
Reactivity:	Human, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMD2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-PSMD2 Antibody Picoband®
Immunogen:	E.coli-derived human PSMD2 recombinant protein (Position: K219-L908).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PSMD2 Antibody Picoband® (ABIN7600663). Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human, Monkey, Rat. 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	PSMD2
Alternative Name:	PSMD2 (PSMD2 Products)
Background:	Synonyms: Ubiquitin carboxyl-terminal hydrolase 21, Deubiquitinating enzyme 21, Ubiquitin thioesterase 21, Ubiquitin-specific-processing protease 21, USP21, USP23, PP1490 Tissue Specificity: Highly expressed in heart, pancreas and skeletal muscle. Also expressed in brain, placenta, liver and kidney, and at very low level in lung. Background: 26S proteasome non-ATPase regulatory subunit 2, also as known as 26S Proteasome Regulatory Subunit Rpn1 (systematic nomenclature), is an enzyme that in humans is encoded by the PSMD2 gene. 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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene.
Molecular Weight:	97 kDa
Gene ID:	5708
UniProt:	Q13200
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Monkey, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Boldin, M. P., Mett, I. L., Wallach, D. A protein related to a proteasomal subunit binds to the intracellular domain of the p55 TNF receptor upstream to its 'death domain.' FEBS Lett. 367: 39-44, 1995. 2. Dunbar, J. D., Song, H. Y., Guo, D., Wu, L.-W., Donner, D. B. Two-hybrid cloning of a

Application Details

	gene encoding TNF receptor-associated protein 2, a protein that interacts with the intracellular domain of the type 1 TNF receptor: identity with subunit 2 of the 26S protease. J. Immun. 158: 4252-4259, 1997. 3. Tsurumi, C., Shimizu, Y., Saeki, M., Kato, S., Demartino, G. N., Slaughter, C. A., Fujimuro, M., Yokosawa, H., Yamasaki, M., Hendil, K. B., Toh-E, A., Tanahashi, N., Tanaka, K. cDNA cloning and functional analysis of the p97 subunit of the 26S proteasome, a polypeptide identical to the type-1 tumor-necrosis-factor-receptor-associated protein-2/55.11. Europ. J. Biochem. 239: 912-921, 1996.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.