Datasheet for ABIN7599141

anti-PSMA5 antibody (AA 1-241)

Go to Product page

Overview

Quantity:	100 µg
Target:	PSMA5
Binding Specificity:	AA 1-241
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMA5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PSMA5 Antibody Picoband®
Immunogen:	E.coli-derived human PSMA5 recombinant protein (Position: M1-I241). Human PSMA5 shares 100% and 98.8% amino acid (aa) sequence identity with mouse and rat PSMA5, respectively.
Characteristics:	Anti-PSMA5 Antibody Picoband® (ABIN7599141). Tested in WB, ICC/IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Monkey, Mouse, 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:	PSMA5
Alternative Name:	PSMA5 (PSMA5 Products)
Background:	Proteasome subunit alpha type-5 also known as 20S proteasome subunit alpha-5 is a protein that in humans is encoded by the PSMA5 gene. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the peptidase T1A family, that is a 20S core alpha subunit. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found for this gene.
Molecular Weight:	26 kDa
Gene ID:	5686
UniProt:	P28066
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Monkey, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Coux, O., Tanaka, K., Goldberg, A. L. Structure and functions of the 20S and 26S proteasomes. Ann. Rev. Biochem. 65: 801-847, 1996. 2. DeMartino, G. N., Orth, K., McCullough, M. L., Lee, L. W., Munn, T. Z., Moomaw, C. R., Dawson, P. A., Slaughter, C. A. The primary structures of four subunits of the human, high molecular weight proteinase, macropain (proteasome), are distinct but homologous. Biochim. Biophys. Acta 1079: 29-38, 1991. 3. Mayau, V., Baron, B., Buttin, G., Debatisse, M. Twelve genes, including the unassigned proteasome zeta subunit gene, ordered within the human 1p13 region. Mammalian Genome 9: 331-333, 1998.
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.