

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects Human/Mouse/Rat PSMA2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 797016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PSMA2 Met1-Ala234 Accession # P25787
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PSMA2 (Proteasome subunit alpha type 2; also known as proteasome component C3 and Macropain subunit C3) is an intracellular 25-27 kDa member of the peptidase T1A family of molecules. It is ubiquitously expressed, and participates in the formation of the 700 kDa 20S proteasomal complex. This complex contains four stacked rings, forming a barrel. The top and bottom rings are made of seven α-subunits, while the two central rings are composed of seven catalytic β-subunits. The complex degrades 80-90% of all intracellular proteins through both an ubiquitin-dependent and -independent process. PSMA2 may modulate the activity of select β-subunits. Human PSMA2 is 234 amino acids (aa) in length. It contains at least five utilized phosphorylation sites plus one nitrated tyrosine. Full-length human PSMA2 shares 99% aa sequence identity with mouse PSMA2.

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