

DESCRIPTION

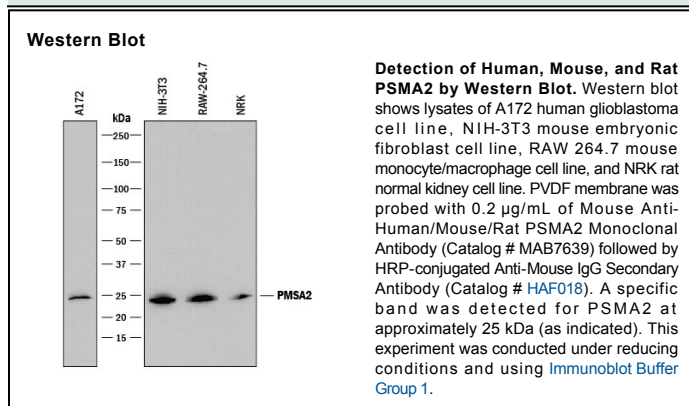
Species Reactivity	Human/Mouse/Rat
Specificity	Detects Human/Mouse/Rat PMSA2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 797016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PMSA2 Met1-Ala234 Accession # P25787
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.