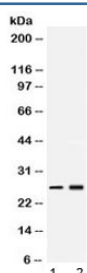


PSMA2 Antibody / Proteasome 20S alpha 2 (R32556)

Catalog No.	Formulation	Size
R32556	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P25787
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PSMA2 antibody is available for research use only.



Western blot testing of 1) rat testis and 2) human MCF7 lysate with PSMA2 antibody at 0.5ug/ml. Predicted/observed molecular weight ~26 kDa.

Description

Proteasome subunit alpha type-2 is a protein that in humans is encoded by the PSMA2 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the PSMA2 antibody to be titrated for optimal performance.

Immunogen

Amino acids 82-123 (DYRVLVHRARKLAQQYYLVYQEPIPTAQLVQRVASVMQEYEQ) from the human protein were used as the immunogen for the PSMA2 antibody.

Storage

After reconstitution, the PSMA2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.