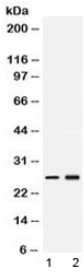
PSMA2 Antibody / Proteasome 20S alpha 2 (R32556)

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
Host	Rabbit
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 (DYRVLVHRARKLAQQYYLVYQEPIPTAQLVQRVASVMQEYTQ) 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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.