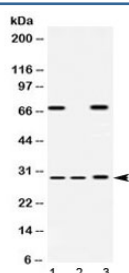


PSMA4 Antibody / Proteasome 20S alpha 4 (R32558)

Catalog No.	Formulation	Size
R32558	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, 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	P25789
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PSMA4 antibody is available for research use only.



Western blot testing of 1) rat liver, 2) mouse spleen and 3) human HeLa lysate with PSMA4 antibody at 0.5ug/ml. Predicted/observed molecular weight ~29 kDa.

Description

Proteasome subunit alpha type-4, also known as macropain subunit C9, proteasome component C9, and 20S proteasome subunit alpha-3, is a protein that in humans is encoded by the PSMA4 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. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the PSMA4 antibody to be titrated for optimal performance.

Immunogen

Amino acids 84-123 (NVLTNELRLIAQRYLLQYQEPIPCEQLVTALCDIKQAYTQ) from the human protein were used as the immunogen for the PSMA4 antibody.

Storage

After reconstitution, the PSMA4 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.