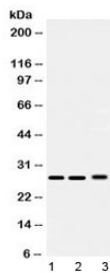


PSMA3 Antibody / Proteasome 20S alpha 3 (R32557)

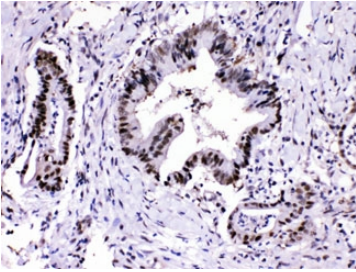
Catalog No.	Formulation	Size
R32557	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

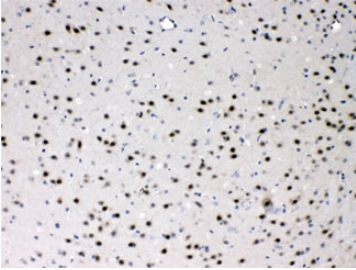
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P25788
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This PSMA3 antibody is available for research use only.



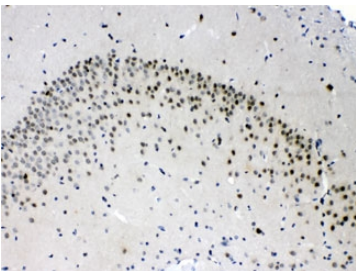
Western blot testing of 1) rat testis, 2) mouse lung and 3) human 293T lysate with PSMA3 antibody at 0.5ug/ml. Predicted/observed molecular weight ~28 kDa.



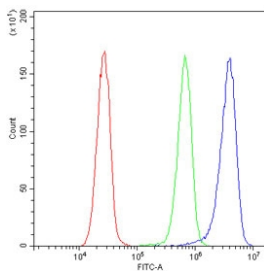
IHC testing of FFPE human intestine cancer tissue with PSMA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IHC testing of FFPE mouse brain with PSMA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IHC testing of FFPE rat brain with PSMA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human HeLa cells with PSMA3 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PSMA3 antibody.

Description

Proteasome subunit alpha type-3, also known as macropain subunit C8 and proteasome component C8, is a protein that in humans is encoded by the PSMA3 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. Two alternative transcripts encoding different isoforms have been identified.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the PSMA3 antibody to be titrated for optimal performance.

Immunogen

Amino acids 88-127 (LADIAREEASNFRSNGFYNIPLKHLADRVAMYVHAYTLYS) from the human protein were used as the immunogen for the PSMA3 antibody.

Storage

After reconstitution, the PSMA3 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.