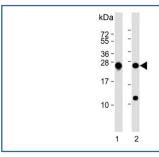


PSMB1 Antibody / Proteasome subunit beta type-1 (F54465)

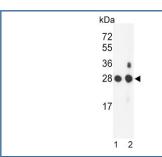
Catalog No.	Formulation	Size
F54465-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54465-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

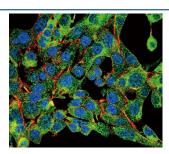
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P20618
Localization	Cytoplasmic, nuclear
Applications	Flow Cytometry: 1:25 (1x10e6 cells) Immunofluorescence: 1:25 Immunohistochemistry (FFPE): 1:25 Western Blot: 1:500-1:2000
Limitations	This PSMB1 antibody is available for research use only.



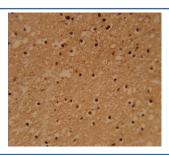
Western blot testing of human 1) K562 and 2) MCF7 cell lysate with PSMB1 antibody. Predicted molecular weight \sim 26 kDa.



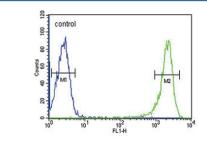
Western blot testing of mouse 1) NIH 3T3 and 2) bladder lysate with PSMB1 antibody. Predicted molecular weight ~26 kDa.



Immunofluorescent staining of human HepG2 cells with PSMB1 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IHC testing of FFPE human brain tissue with PSMB1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human HL60 cells with PSMB1 antibody; Blue=isotype control, Green= PSMB1 antibody.

Description

PSMB1 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PSMB1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 214-241 from the human protein was used as the immunogen for the PSMB1 antibody.

Storage

Aliquot the PSMB1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.