

PSMB7 Polyclonal Antibody

Catalog NumberPA1-979

Product data sheet

Details		Species Reactivity	
Size	100 µg	Published species	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution * 1 µg/mL
Type	Antibody	Published Applications	
Immunogen	Synthetic Peptide: C E(263) I E V L E E T V Q T M D T S(NH2)(277)	Western Blot (WB)	See 1 publications below
Conjugate	Unconjugated	Immunohistochemistry (IHC)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

PA1-979 detects proteasome 20S Z (also known as the beta 2 subunit) from purified bovine and human 26S proteasome samples. PA1-979 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~29 kDa protein representing proteasome 20S Z from purified human 26S proteasome. The PA1-979 immunizing peptides correspond to amino acid residues 263-277 from human proteasome 20S Z protein. This sequence is completely conserved in mouse and 97% conserved in rat protein. PA1-979 immunizing peptide (Cat. # PEP-175) is available for use in neutralization and control procedures.

Background/Target Information

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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon and proteolytic processing is required to generate a mature subunit. This subunit is not present in the immunoproteasome and is replaced by catalytic subunit 2i (proteasome beta 10 subunit).

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PubMed References For PSMB7 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
	PA1-979 was used in western blot to study the effect of HIV infection on brain proteasomes and its role in dementia
Human / 1:1000	The American journal of pathology ( 2010; 176: 893) <b>"Persistent hijacking of brain proteasomes in HIV-associated dementia."</b> Author(s):Nguyen TP,Soukup VM,Gelman BB PubMed Article URL: <a href="http://dx.doi.org/10.2353/ajpath.2010.090390">http://dx.doi.org/10.2353/ajpath.2010.090390</a>

1 Immunohistochemistry References

Species / Dilution	Summary
	PA1-979 was used in immunohistochemistry to investigate the cause of meningoencephalitis after immunization with amyloid-beta peptide in Alzheimer disease
Human / 1:100	Brain pathology (Zurich, Switzerland) ( 2004; 14: 11) <b>"Neuropathology and pathogenesis of encephalitis following amyloid-beta immunization in Alzheimer's disease."</b> Author(s):Ferrer I,Boada Rovira M,Sánchez Guerra ML,Rey MJ,Costa-Jussá F PubMed Article URL: <a href="http://dx.doi.org/10.1111/j.1750-3639.2004.tb00493.x">http://dx.doi.org/10.1111/j.1750-3639.2004.tb00493.x</a>

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