

ARG57143 anti-PSME1 antibody [12H3]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [12H3] recognizes PSME1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	12H3
Isotype	IgG2a, kappa
Target Name	PSME1
Species	Human
Immunogen	Recombinant fragment around aa. 1-249 of Human PSME1
Conjugation	Un-conjugated
Alternate Names	REG-alpha; Proteasome activator 28 subunit alpha; PA28alpha; Activator of multicatalytic protease subunit 1; 11S regulator complex subunit alpha; Interferon gamma up-regulated I-5111 protein; PA28A; IGUP I-5111; IFI5111; Proteasome activator complex subunit 1; REGalpha; PA28a

Application Instructions

Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>WB</td><td>Assay-dependent</td></tr></tbody></table>	Application	Dilution	WB	Assay-dependent
Application	Dilution				
WB	Assay-dependent				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				

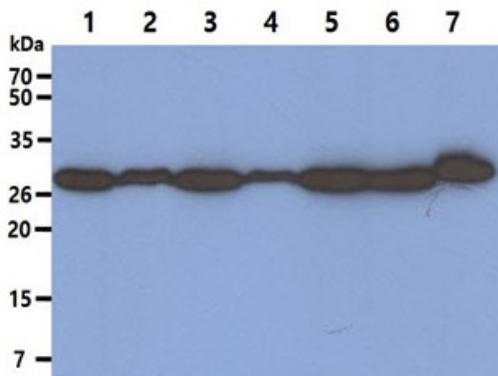
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 5720 Human Swiss-port # Q06323 Human
Gene Symbol	PSME1
Gene Full Name	proteasome activator subunit 1
Background	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the alpha subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three alpha and three beta subunits combine to form a heterohexameric ring. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Function	Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome. [UniProt]
Calculated Mw	29 kDa

Images



ARG57143 anti-PSME1 antibody [12H3] WB image

Western blot: 40 μ g of 1) HeLa, 2) LNCap, 3) A549, 4) 293T, 5) Jurkat, 6) Raji, and 7) A431 cell lysates stained with ARG57143 anti-PSME1 antibody [12H3] at 1:1000.