

## ARG55484 anti-PSME1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PSME1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PSME1
Species	Human
Immunogen	Recombinant protein 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

Predict Reactivity Note	Rat						
Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>ICC/IF</td><td>1:50 - 1:200</td></tr><tr><td>WB</td><td>1:500 - 1:2000</td></tr></tbody></table>	Application	Dilution	ICC/IF	1:50 - 1:200	WB	1:500 - 1:2000
Application	Dilution						
ICC/IF	1:50 - 1:200						
WB	1:500 - 1:2000						
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.						
Positive Control	Mouse heart and BT474						
Observed Size	~ 30 kDa						

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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

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Database links [GeneID: 19186 Mouse](#)

[GeneID: 5720 Human](#)

[Swiss-port # P97371 Mouse](#)

[Swiss-port # Q06323 Human](#)

Gene Symbol

PSME1

Gene Full Name

proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)

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]

Research Area

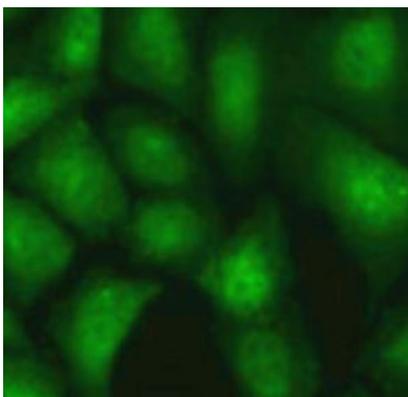
Cell Biology and Cellular Response antibody

Calculated Mw

29 kDa

## Images

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ARG55484 anti-PSME1 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG55484 anti-PSME1 antibody.

ARG55484 anti-PSME1 antibody WB image

Western blot: Mouse heart and BT474 cell lysates stained with ARG55484 anti-PSME1 antibody.

