

PSME3 Rabbit pAb

Catalog No.: A0271

Basic Information

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A0271

Observed MW

32kDa

Calculated MW

29kDa/30kDa

Category

Primary antibody

Applications

WB, IF

Cross-Reactivity

Human, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IF	1:20 - 1:50

Contact

 | www.abclonal.com

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 gamma subunit of the 11S regulator. Six gamma subunits combine to form a homohexameric ring. Alternate splicing results in multiple transcript variants.

Immunogen Information

Gene ID	Swiss Prot
10197	P61289

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-254 of human PSME3 (NP_789839.1).

Synonyms

PSME3;HEL-S-283;Ki;PA28-gamma;PA28G;PA28gamma;REG-GAMMA

Product Information

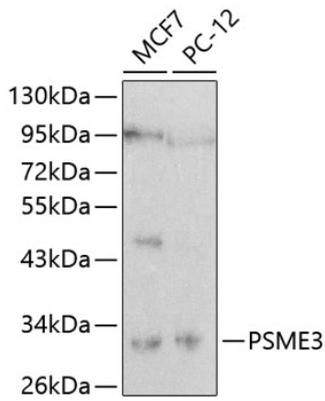
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

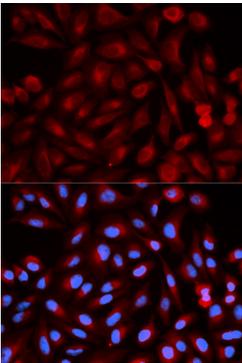
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using PSME3 antibody (A0271).
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.



Immunofluorescence analysis of HeLa cells using PSME3 antibody (A0271). Blue: DAPI for nuclear staining.