

**Goat Anti-PSME2 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1874a

**Specification**

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**Goat Anti-PSME2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9UL46</a>
Other Accession	<a href="#">NP_002809</a> , <a href="#">5721</a> , <a href="#">19188 (mouse)</a> , <a href="#">29614 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	27402

**Goat Anti-PSME2 Antibody - Additional Information**

**Gene ID** 5721

**Other Names**

Proteasome activator complex subunit 2, 11S regulator complex subunit beta, REG-beta, Activator of multicatalytic protease subunit 2, Proteasome activator 28 subunit beta, PA28b, PA28beta, PSME2

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-PSME2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-PSME2 Antibody - Protein Information**

**Name** PSME2

**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.

## Goat Anti-PSME2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Goat Anti-PSME2 Antibody - Images



AF1874a (0.5 µg/ml) staining of Human Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Goat Anti-PSME2 Antibody - 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 beta subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three beta and three alpha subunits combine to form a heterohexameric ring. Six pseudogenes have been identified on chromosomes 4, 5, 8, 10 and 13.

## Goat Anti-PSME2 Antibody - References

Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Mammalian Cdh1/Fzr mediates its own degradation. Listovsky T, et al. EMBO J, 2004 Apr 7. PMID 15029244.

The Vif protein of HIV triggers degradation of the human antiretroviral DNA deaminase APOBEC3G. Conticello SG, et al. Curr Biol, 2003 Nov 11. PMID 14614829.

Induction of APOBEC3G ubiquitination and degradation by an HIV-1 Vif-Cul5-SCF complex. Yu X, et al. Science, 2003 Nov 7. PMID 14564014.