

## Product datasheet for **TA342178**

### PSME2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PSME2 antibody: synthetic peptide directed towards the middle region of human PSME2. Synthetic peptide located within the following region: QEKVLERVNAVKTKEAFQTTISKYFSEKDAVAKASKETHVMDYRALVH
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27 kDa
Gene Name:	proteasome activator subunit 2
Database Link:	<a href="#">NP_002809</a> <a href="#">Entrez Gene 5721 Human</a> <a href="#">Q9UL46</a>



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**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. [provided by RefSeq, Jul 2008]

**Synonyms:**

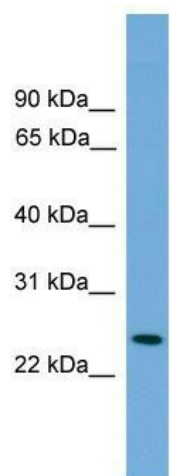
PA28B; PA28beta; REGbeta

**Note:**

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Horse: 93%; Rabbit: 93%; Guinea pig: 93%; Zebrafish: 79%

**Protein Pathways:**

Antigen processing and presentation, Proteasome

**Product images:**

WB Suggested Anti-PSME2 Antibody Titration:  
0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control:  
Transfected 293T