

Product datasheet for **AP42156PU-N**

PSMC3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blotting (1 - 3 µg/ml) Immunohistochemistry on paraffin embedded sections (4 - 8 µg/ml)
Reactivity:	Bovine, Canine, Chicken, Human, Mouse, Rat, Zebrafish, African clawed frog
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PSMC3 antibody: synthetic peptide directed towards the middle region of human PSMC3.
Formulation:	State: Aff - Purified State: 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>
Purification:	Purified using Protein A affinity column.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	proteasome 26S subunit, ATPase 3
Database Link:	Entrez Gene 19182 Mouse Entrez Gene 29677 Rat Entrez Gene 5702 Human P17980



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Background:

PSMC3 is a subunit of the 26S proteasome. 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. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9.

Synonyms:

26S protease regulatory subunit 6A, Proteasome 26S subunit ATPase 3, Proteasome subunit P50, Tat-binding protein 1, TBP-1

Protein Families:

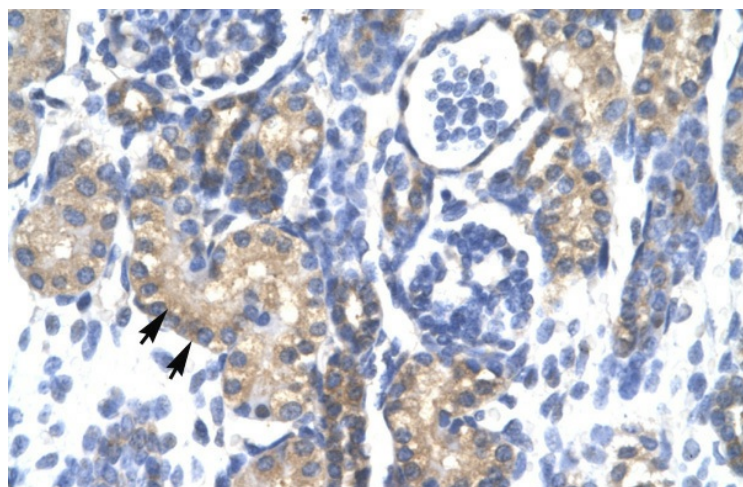
Druggable Genome, Transcription Factors

Protein Pathways:

Proteasome

Product images:

Human HepG2; WB Suggested Anti-PSMC3 Antibody Titration: 1.25ug/ml. Positive Control: HepG2 cell lysate; PSMC3 antibody - middle region (AP42156PU-N) in Human HepG2 cells using Western Blot



Human kidney; PSMC3 antibody - middle region (AP42156PU-N) in Human kidney cells using Immunohistochemistry