



Anti-PSMD2 (full length) polyclonal antibody (CPBT-42962RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human PSMD2.
Antigen Description	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. This gene encodes one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1.
Specificity	Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung and placenta.
Immunogen	Recombinant full length protein (Human).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	IgG fraction
Conjugate	Unconjugated
Applications	IP, WB

Sequence Similarities	Belongs to the proteasome subunit S2 family.Contains 7 PC repeats.
Format	Liquid
Size	100 µl
Buffer	PBS, 1 mg/ml BSA, 0.05% sodium azide
Preservative	0.05% Sodium Azide
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	PSMD2 proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 [Homo sapiens]
Official Symbol	PSMD2
Synonyms	PSMD2; proteasome (prosome, macropain) 26S subunit, non-ATPase, 2; 26S proteasome non-ATPase regulatory subunit 2; MGC14274; P97; Rpn1; S2; TRAP2; 26S proteasome non ATPase regulatory subunit 2; 26S proteasome non-ATPase regulatory subunit 2; 26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; 55.11 protein; MGC14274; P97; Proteasome (prosome macropain) 26S subunit non ATPase 2; Proteasome 26S subunit non ATPase 2; Protein 55.11; PSMD 2; PSMD2; PSMD2_HUMAN; Rpn1; S2; TNFR associated protein 2; TRAP 2; TRAP2; Tumor necrosis factor receptor associated protein 2; Tumor necrosis factor type 1 receptor associated protein 2; Tumor necrosis factor type 1 receptor-associated protein 2; 55.11 protein; protein 55.11; OTTHUMP00000210627; OTTHUMP00000210628; OTTHUMP00000210629; TNFR-associated protein 2; 26S proteasome subunit p97; 26S proteasome regulatory subunit S2; 26S proteasome regulatory subunit RPN1; tumor necrosis factor receptor-associated protein 2; tumor necrosis factor type 1 receptor-associated protein 2;
Entrez Gene ID	5708
Protein Refseq	NP_002799
UniProt ID	Q13200
Chromosome Location	3q27.3
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of

mitotic proteins, organism-specific biosystem; Adaptive Immune Syste

Function

enzyme regulator activity; protein binding;
