



Anti-PSMD1 (aa 1-110) polyclonal antibody (DPAB-DC2564)

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

PRODUCT INFORMATION

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 the largest non-ATPase subunit of the 19S regulator lid, which is responsible for substrate recognition and binding. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jul 2010]

Immunogen

PSMD1 (NP_002798, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is
 MITSAAGIISLLDEDEPQLKEFALHKLNAAVNDFWAEISESVDKIEVLYEDEGFRSRQFA
 ALVASKVVFYHLGAFEESLNLYALGAGDLFNVNDNSEYVETIIAKCIDHYTK

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer

50 % glycerol

Preservative

None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PSMD1 proteasome (prosome, macropain) 26S subunit, non-ATPase, 1 [Homo sapiens (human)]
Official Symbol	PSMD1
Synonyms	PSMD1; proteasome (prosome, macropain) 26S subunit, non-ATPase, 1; S1; P112; Rpn2; 26S proteasome non-ATPase regulatory subunit 1; 26S proteasome subunit p112; 26S proteasome regulatory subunit S1; 26S proteasome regulatory subunit RPN2;
Entrez Gene ID	5707
Protein Refseq	NP_001177966
UniProt ID	Q99460
Chromosome Location	2q37.1
Pathway	APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of mitotic proteins; AUF1 (hnRNP D0) destabilizes mRNA; Activation of NF-kappaB in B cells
Function	enzyme regulator activity;