



Anti-PSMB9 (full length) polyclonal antibody (DPAB-DC2547)

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

PRODUCT INFORMATION

Antigen Description

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit.

Immunogen

PSMB9 (AAH65513, 1 a.a. ~ 219 a.a) full-length recombinant protein with GST tag. The sequence is
MLRAGAPTGDLPAGEVHTGTTIMAVEFDGGVVMGSDSRVSAGEAVVNRVFDKLSPLHER
IYCALSGSAADAQAVADMAAYQLELHGIELEEPPLVLAANVVRNISKYREDLSAHLMV
AGWDQREGGQVYGTGGMLTRQPFAGGSGSTFIYGYVDAAYKPGMSPEECRRFTTDAIA
LMSRDGSSGGVIYLVITAAGVDHRVILGNELPKFYDE

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	PSMB9 proteasome (prosome, macropain) subunit, beta type, 9 [Homo sapiens (human)]
Official Symbol	PSMB9
Synonyms	PSMB9; proteasome (prosome, macropain) subunit, beta type, 9; LMP2; PSMB6i; RING12; beta1i; proteasome subunit beta type-9; macropain chain 7; proteasome chain 7; proteasome-related gene 2; proteasome subunit beta 6i; proteasome subunit beta-1i; low molecular mass protein 2; proteasome catalytic subunit 1i; large multifunctional peptidase 2; really interesting new gene 12 protein; multicatalytic endopeptidase complex chain 7; proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2);
Entrez Gene ID	5698
Protein Refseq	NP_002791
UniProt ID	P28065
Chromosome Location	6p21.3
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	protein binding; threonine-type endopeptidase activity;