



Anti-PSMA5 (aa 132-241) polyclonal antibody (DPAB-DC2535)

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 peptidase T1A family, that is a 20S core alpha subunit. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found for this gene.
Immunogen	PSMA5 (NP_002781, 132 a.a. ~ 241 a.a) partial recombinant protein with GST tag. The sequence is AMSRPFGVALLFGGVDEKGPQLFHMDPSGTFVQCDARAIGSASEGAQSSLQEYHKSMTL KEAIKSSLIILKQVMEEKLNATNIELATVQPGQNFHMFTKEELEEVIKDI
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), 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	PSMA5 proteasome (prosome, macropain) subunit, alpha type, 5 [Homo sapiens (human)]
Official Symbol	PSMA5
Synonyms	PSMA5; proteasome (prosome, macropain) subunit, alpha type, 5; PSC5; ZETA; proteasome subunit alpha type-5; macropain zeta chain; proteasome zeta chain; macropain subunit zeta; proteasome component 5; proteasome subunit zeta; proteasome alpha 5 subunit; multicatalytic endopeptidase complex zeta chain;
Entrez Gene ID	5686
Protein Refseq	NP_001186701
UniProt ID	P28066
Chromosome Location	1p13
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;