



Rabbit Anti-Human PSMA5 Polyclonal Antibody (CABT-L2192)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Proteasome Subunit Alpha Type 5 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against PSMA5. It has been selected for its ability to recognize PSMA5 in immunohistochemical staining and western blotting.
Target	PSMA5
Immunogen	Recombinant fragment corresponding to human PSMA5 (Met1~Ile241)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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. [provided by RefSeq, Dec 2010]
Keywords	PSC5;Macropain zeta chain;Multicatalytic endopeptidase complex zeta chain;Proteasome zeta chain

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	AMER1 mutants destabilize the destruction complex; APC truncation mutants are not K63 polyubiquitinated; APC truncation mutants have impaired AXIN binding; APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of Securin; APC/C:Cdc20 mediated degradation of mitotic proteins; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1; APC:Cdc20 mediated

degradation of cell cycle proteins prior to satisfaction of the cell c

Function

protein binding; threonine-type endopeptidase activity;
