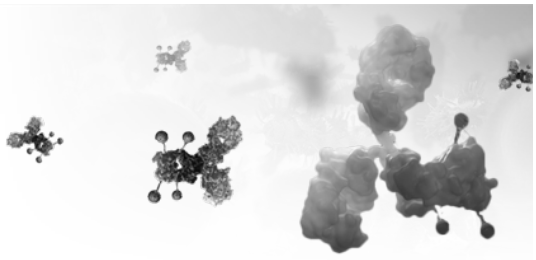

PSMB7 blocking peptide (DAG-P1031)

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. The encoded protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon, and proteolytic processing is required to generate a mature subunit. A pseudogene of this gene is located on the long arm of chromosome 14. [provided by RefSeq, Jul 2012]
Specificity	Expressed at a low level in colonic mucosa. Up-regulated in colorectal cancer tissues.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the peptidase T1B family.
Format	Liquid
Preservative	None
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	PSMB7 proteasome (prosome, macropain) subunit, beta type, 7 [Homo sapiens (human)]
Official Symbol	PSMB7

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Synonyms	PSMB7; proteasome (prosome, macropain) subunit, beta type, 7; Z; proteasome subunit beta type-7; macropain chain Z; proteasome subunit Z; proteasome subunit alpha; proteasome catalytic subunit 2; multicatalytic endopeptidase complex chain Z;
Entrez Gene ID	5695
mRNA Refseq	NM_002799.3
Protein Refseq	NP_002790.1
UniProt ID	E9KL30
Chromosome Location	9q34.11-q34.12
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; Activation of NF-kapp
Function	protein binding; threonine-type endopeptidase activity;

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