



Human PSME3 blocking peptide (CDBP2421)

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

PRODUCT INFORMATION

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| Product Overview | Blocking/Immunizing peptide for anti-PSME3 antibody |
| Antigen Description | <p>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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the gamma subunit of the 11S regulator. Six gamma subunits combine to form a homohexameric ring. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2012]</p> |
| Species | Human |
| Conjugate | Unconjugated |
| Applications | Apuri, BL, ELISA |
| Format | Lyophilized powder |
| Size | 100 µg |
| Preservative | None |
| Storage | Shipped at ambient temperature, store at -20°C. |

GENE INFORMATION

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| Gene Name | PSME3 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) [Homo sapiens] |
| Official Symbol | PSME3 |
| Synonyms | PSME3; proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki); proteasome activator complex subunit 3; Ki; PA28 gamma; PA28G; REG GAMMA; PA28gamma; Ki antigen; Ki nuclear autoantigen; proteasome activator 28-gamma; 11S regulator complex gamma subunit; 11S regulator complex subunit gamma; proteasome activator 28 subunit gamma; activator of multicatalytic protease subunit 3; REG-GAMMA; PA28-gamma; |
| Entrez Gene ID | 10197 |
| mRNA Refseq | NM_005789 |
| Protein Refseq | NP_005780 |
| UniProt ID | P61289 |
| Chromosome Location | 17q12-q21 |
| 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 | MDM2 binding; endopeptidase activator activity; p53 binding; protein binding; |