

**PSMD2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14349a****Specification**

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**PSMD2 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [Q13200](#)

**PSMD2 Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 5708

**Other Names**

26S proteasome non-ATPase regulatory subunit 2, 26S proteasome regulatory subunit RPN1, 26S proteasome regulatory subunit S2, 26S proteasome subunit p97, Protein 5511, Tumor necrosis factor type 1 receptor-associated protein 2, PSMD2, TRAP2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PSMD2 Antibody (N-term) Blocking Peptide - Protein Information**

**Name** PSMD2

**Synonyms** TRAP2

**Function**

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.

**Tissue Location**

Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung and placenta

**PSMD2 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **PSMD2 Antibody (N-term) Blocking Peptide - Images**

#### **PSMD2 Antibody (N-term) Blocking Peptide - Background**

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. This gene encodes one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1.

#### **PSMD2 Antibody (N-term) Blocking Peptide - References**

Ikeda, Y., et al. J. Biol. Chem. 284(50):34889-34900(2009) Smith, L., et al. Neoplasia 11(11):1194-1207(2009) McCauley, J.L., et al. Genes Immun. 10(7):624-630(2009) Djakovic, S.N., et al. J. Biol. Chem. 284(39):26655-26665(2009) Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)