

Caspase-5 Blocking Peptide
Catalog # PBV10011b**Specification**

Caspase-5 Blocking Peptide - Product Information

Primary Accession	P51878
Other Accession	NP_004338
Gene ID	838
Calculated MW	49736

Caspase-5 Blocking Peptide - Additional Information**Gene ID** 838**Application & Usage**

The peptide is used for blocking the antibody activity of active Caspase-5. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30 minutes at 37°C

Other Names

Caspase-5, CASP-5, 3.4.22.58, ICE(rel)-III, Protease ICH-3, Protease TY, Caspase-5 subunit p20, Caspase-5 subunit p10, CASP5, ICH3

Target/Specificity

Caspase-5

Formulation

50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 0.1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Caspase-5 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Caspase-5 Blocking Peptide - Protein Information

Name CASP5 {ECO:0000303|PubMed:16893518, ECO:0000312|HGNC:HGNC:1506}

Function

Thiol protease that acts as a mediator of programmed cell death (PubMed:29898893, PubMed:<a

[28314590](http://www.uniprot.org/citations/28314590)). Initiates pyroptosis, a programmed lytic cell death pathway through cleavage of Gasdermin-D (GSDMD): cleavage releases the N-terminal gasdermin moiety (Gasdermin- D, N-terminal) that binds to membranes and forms pores, triggering pyroptosis (PubMed: [29898893](http://www.uniprot.org/citations/29898893)). Also mediates cleavage and maturation of IL18 (PubMed: [37993714](http://www.uniprot.org/citations/37993714)). Cleavage of GSDMD and IL18 is not strictly dependent on the consensus cleavage site but depends on an exosite interface on CASP4 (PubMed: [37993714](http://www.uniprot.org/citations/37993714)). During non-canonical inflammasome activation, cuts CGAS and may play a role in the regulation of antiviral innate immune activation (PubMed: [28314590](http://www.uniprot.org/citations/28314590)).

Tissue Location

Expressed in barely detectable amounts in most tissues except brain, highest levels being found in lung, liver and skeletal muscle.

Caspase-5 Blocking Peptide - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Caspase-5 Blocking Peptide - Images