

Caspase 5 Antibody
Rabbit mAb
Catalog # AP90741**Specification****Caspase 5 Antibody - Product Information**

Application	WB, IHC, ICC, IP
Primary Accession	P51878
Clonality	Monoclonal
Other Names	
CASP5; Apoptosis related cysteine protease; CASP-5; Caspase-5 subunit p10; Protease ICH-3; TY protease;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49736 Da

Caspase 5 Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Caspase 5
Description	Caspase-5 (Ich-3/ICERelIII/TY) is a member of the caspase family of cysteine proteases that play a key role in the execution of apoptosis and activation of inflammatory cytokines. It is a mediator of programmed cell death (apoptosis).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Caspase 5 Antibody - 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:28314590, PubMed:29898893). 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:<a

<http://www.uniprot.org/citations/29898893> target="_blank">29898893). Also mediates cleavage and maturation of IL18 (PubMed:<<http://www.uniprot.org/citations/37993714> target="_blank">37993714). Cleavage of GSDMD and IL18 is not strictly dependent on the consensus cleavage site but depends on an exosite interface on CASP4 (PubMed:<<http://www.uniprot.org/citations/37993714> target="_blank">37993714). During non-canonical inflammasome activation, cuts CGAS and may play a role in the regulation of antiviral innate immune activation (PubMed:<<http://www.uniprot.org/citations/28314590> target="_blank">28314590).

Tissue Location

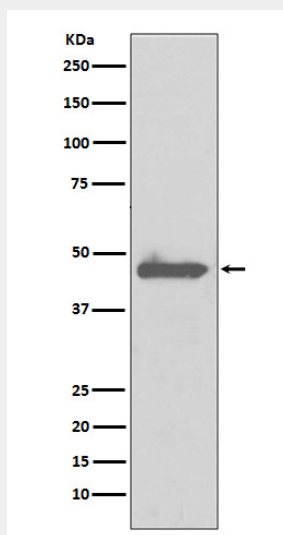
Expressed in barely detectable amounts in most tissues except brain, highest levels being found in lung, liver and skeletal muscle.

Caspase 5 Antibody - 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 Antibody - Images



Western blot analysis of Caspase 5 expression in HeLa cell lysate.