

CASP5 / Caspase 5 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11407**Specification**

CASP5 / Caspase 5 Antibody - Product Information

Application	ICC, IF, WB, IHC
Primary Accession	P51878
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50kDa KDa

CASP5 / Caspase 5 Antibody - Additional Information**Gene ID** 838**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

14 amino acid peptide from the center of human Caspase-5

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

CASP5 / Caspase 5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CASP5 / 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:29898893). Also mediates cleavage and maturation of IL18 (PubMed: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). During non-canonical inflammasome activation, cuts CGAS and

may play a role in the regulation of antiviral innate immune activation (PubMed:28314590).

Tissue Location

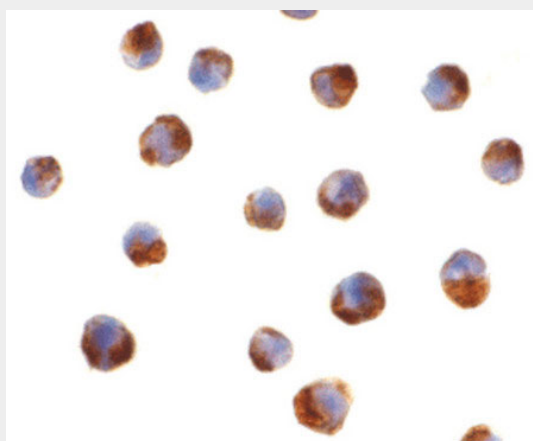
Expressed in barely detectable amounts in most tissues except brain, highest levels being found in lung, liver and skeletal muscle.

CASP5 / Caspase 5 Antibody - Protocols

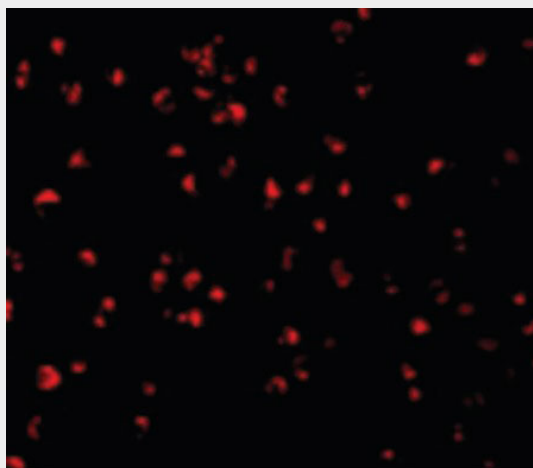
Provided below are standard protocols that you may find useful for product applications.

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

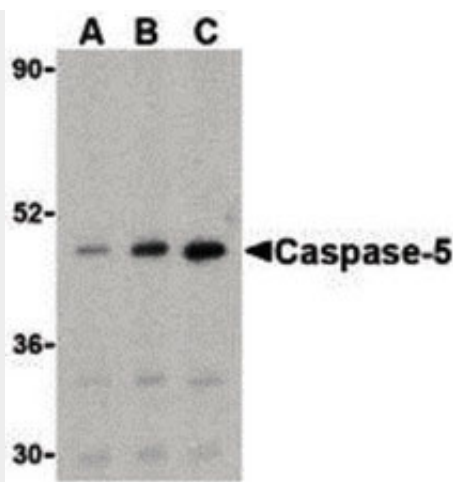
CASP5 / Caspase 5 Antibody - Images



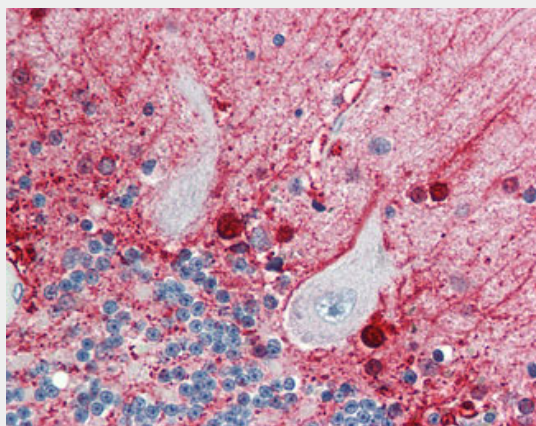
Immunocytochemistry of caspase-5 in P815 cells with caspase-5 antibody at 2 ug/ml.



Immunofluorescence of Caspase-5 in P815 cells with Caspase-5 antibody at 2 ug/ml.



Western blot of caspase-5 in Ramos cells with caspase-5 antibody at (A) 0.5, (B) 1, and (C) 2 ug/ml.



Anti-CASP5 / Caspase 5 antibody IHC of human brain, cerebellum.

CASP5 / Caspase 5 Antibody - Background

Mediator of programmed cell death (apoptosis).

CASP5 / Caspase 5 Antibody - References

- Eckhart L.,et al.Biochem. Biophys. Res. Commun. 348:682-688(2006).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Taylor T.D.,et al.Nature 440:497-500(2006).
- Munday N.A.,et al.J. Biol. Chem. 270:15870-15876(1995).
- Faucheu C.,et al.Eur. J. Biochem. 236:207-213(1996).