

# Caspase 5 p20 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51044

## Product Information

Application	WB
Primary Accession	<a href="#">P51878</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49736

## Additional Information

Gene ID	838
Other Names	Caspase-5, CASP-5, ICE(rel)-III, Protease ICH-3, Protease TY, Caspase-5 subunit p20, Caspase-5 subunit p10, CASP5, ICH3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Caspase 5 p20. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## 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: <a href="#">28314590</a> , PubMed: <a href="#">29898893</a> ). 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 href="#">29898893</a> ). Also mediates cleavage and maturation of IL18 (PubMed: <a href="#">37993714</a> ). Cleavage of GSDMD and IL18 is not strictly dependent on the consensus cleavage site but depends on an exosite interface on CASP4 (PubMed: <a href="#">37993714</a> ). During non-canonical inflammasome activation, cuts CGAS and may play a role in the regulation of antiviral innate immune activation (PubMed: <a href="#">28314590</a> ).
Tissue Location	Expressed in barely detectable amounts in most tissues except brain, highest levels being found in lung, liver and skeletal muscle.

## Background

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Mediator of programmed cell death (apoptosis).

## References

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Taylor T.D.,et al.Nature 440:497-500(2006).

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