

Datasheet for 600-401-AD5**Caspase-5 Antibody****Overview**

Description:	Anti-Caspase-5 (RABBIT) Antibody - 600-401-AD5
Item No.:	600-401-AD5
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Caspases are a family of cysteine proteases that can be divided into the apoptotic and inflammatory caspase subfamilies. Unlike the apoptotic caspases, members of the inflammatory subfamily are generally not involved in cell death but are associated with the immune response to microbial pathogens. Members of this subfamily include caspase-1, -4, -5, and -12. Activation of these caspases results in the cleavage and activation of proinflammatory cytokines such as IL-1b and IL-18. Caspase-5 can interact with caspase-1; both are constituents of the NALP1 inflammasome, a complex that can trigger the cleavage of pro-IL-1b. Expression of caspase-5 can be regulated by lipopolysaccharide (LPS) and IFN-gamma.
Synonyms:	Caspase-5 Antibody, ICH-3, ICEREL-III, ICE(rel)III, ICH3, Caspase-5, Protease ICH-3, CASP-5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CASP5
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Caspase-5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from the amino-terminus of human Caspase-5.

Purity/Specificity:	Anti-Caspase-5 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Depending on cell lines or tissues used, other cleavage products may be observed.
Relevant Links:	• UniProtKB - P51878 • GeneID - 838 • NCBI - NP_001129581.1

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Caspase-5 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:20,000
WB:	0.5-2 µg/mL

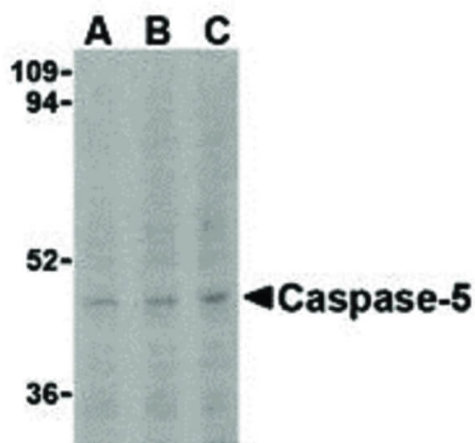
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Caspase 5 antibody in Ramos cells. Lane A: Caspase 5 antibody at 0.5 $\mu\text{g/mL}$. Lane B: Caspase 5 antibody at 1 $\mu\text{g/mL}$. Lane C: Caspase 5 antibody at 2 $\mu\text{g/mL}$. Load: 35 μg per lane. Primary antibody: Caspase-5 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 50 kDa, 49 kDa for Caspase-5. Other band(s): Caspase-5 splice variants and isoforms.

Disclaimer

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