Datasheet for 600-401-AC4

Caspase-1 Antibody

Overview

Description:	Anti-Caspase-1 (RABBIT) Antibody - 600-401-AC4
Item No.:	600-401-AC4
Size:	100 µg
Applications:	ELISA, IHC, 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 and can activate proinflammatory cytokines such as IL-1b and IL-18. Caspase-1 was initially identified as an IL-1b-converting enzyme; later experiments revealed it to be a mammalian homolog of the C. elegans cell death gene ced-3 whose overexpression can induce apoptosis in fibroblasts.
Synonyms:	Caspase-1 Antibody, ICE, P45, IL1BC, IL1BCE, Caspase-1, Interleukin-1 beta convertase, CASP-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CASP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Caspase-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the C-terminus of human Caspase-1.

Purity/Specificity:	Anti-Caspase-1 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 - P29466 • GeneID - 834 • NCBI - NP_150634

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-Caspase-1 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry and is suitable in IF. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 45 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
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	0.5-2 µg/mL

Formulation

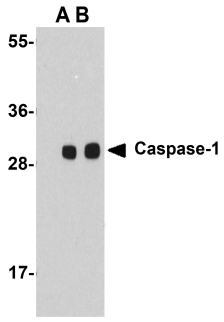
Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

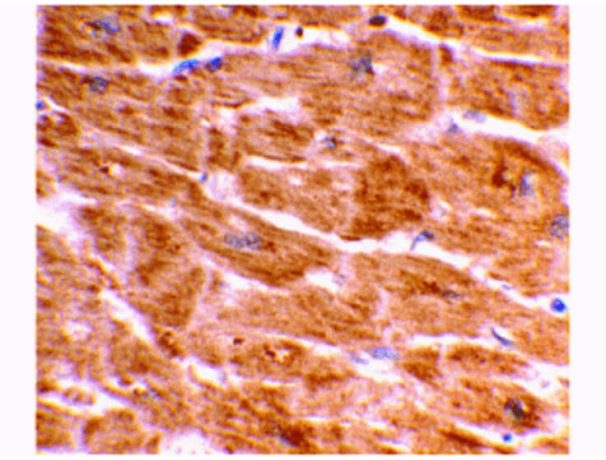
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot analysis of Caspase-1 in human heart cell lysate with Caspase-1 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry
Immunohistochemistry of Caspase-1 antibody. Tissue: human heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Caspase-1 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Caspase-1 is cytoplasmic. Staining: Caspase-1 is stained with hematoxylin purple nuclear counterstain.

Disclaimer

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