

Datasheet for ABIN499561

anti-Caspase 4 antibody (N-Term)

3 Images

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Overview

Quantity:	0.1 mg
Target:	Caspase 4 (CASP4)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human Casp-4 / ICH-2 / ICE rel II / Mih1 (N-Terminus) Peptide
Isotype:	IgG
Specificity:	This antibody was raised against a 16 amino acid peptide from the amino-terminus of human Caspase-4.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	Caspase 4 (CASP4)
Alternative Name:	Caspase-4 (CASP4 Products)

Target 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 (reviewed in 1). 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-1beta and IL-18 (2,3). Caspase-4 was initially identified as a homologous protein to Caspase-1 and the C. elegans Ced-3 which could induce apoptosis in transfected cells (4). More recent studies have shown that it can be activated by ER stress and has been suggested to be involved in multiple neuronal pathologies such as Alzheimer's disease (5).Synonyms: CASP4, ICE(rel)-II, ICH2, Protease ICH-2, Protease TX
Gene ID:	837
UniProt:	P49662
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , Positive Regulation of Endopeptidase Activity

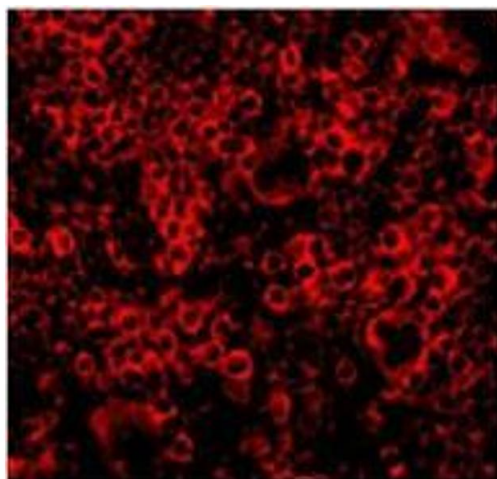
Application Details

Application Notes:	ELISA. Western Blot: Casp-4 antibody can be used for the detection of Caspase-4 at 1 µg/mL. Depending on cell lines or tissues used, other cleavage products may be observed. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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Restrictions:	For Research Use only
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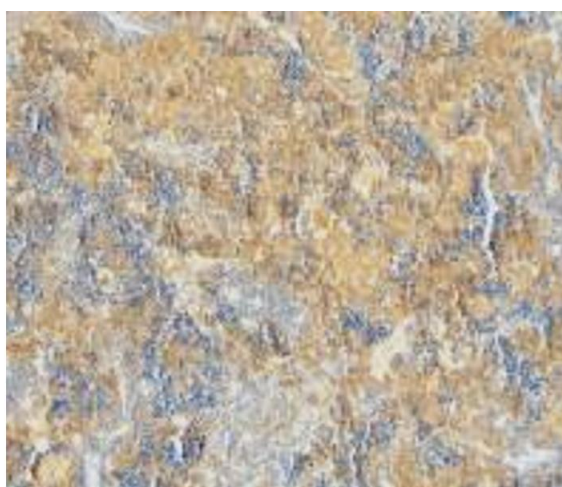
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, 0.02 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



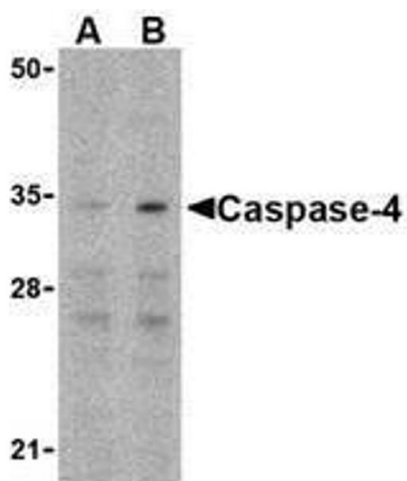
Immunofluorescence

Image 1. Immunofluorescence of Caspase-4 in Mouse Spleen 100 cells with Caspase-4 Antibody at 10 µg/ml.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemical staining of mouse spleen using Caspase-4 antibody at 2 µg/ml.



Western Blotting

Image 3. Western blot analysis of Caspase-4 in Ramos cells with Caspase-4 antibody at (A) 0.5 and (B) 1 µgg/ml.