antibodies

# Datasheet for ABIN7146946 anti-Caspase 4 antibody (AA 82-226)

3 Images



Overview

Quantity:	100 µg
Target:	Caspase 4 (CASP4)
Binding Specificity:	AA 82-226
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human Caspase-4 protein (82-226AA)
Isotype:	lgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

## Target Details

Target:	Caspase 4 (CASP4)
Alternative Name:	CASP4 (CASP4 Products)
Background:	Background: Inflammatory caspase (PubMed:7797510, PubMed:23516580,
	PubMed:25119034). Essential effector of NLRP3 inflammasome-dependent CASP1 activation

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Format:	Liquid
Handling	
Restrictions:	For Research Use only
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:50-1:500,
Application Details	
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity
UniProt:	P49662
	antibody
	antibody, ICH2 antibody, Mih1/TX antibody, Protease ICH-2 antibody, Protease TX antibody, TX
	subunit 2 antibody, Caspase4 antibody, ICE(rel)-II antibody, ICE(rel)II antibody, ICEREL II
	CASP4_HUMAN antibody, Caspase 4 apoptosis related cysteine peptidase antibody, Caspase-4
	Aliases: Apoptotic cysteine protease Mih1/TX antibody, CASP-4 antibody, CASP4 antibody,
	an upstream sensor (PubMed:25119034). Does not directly process IL1B (PubMed:7743998, PubMed:7797592, PubMed:7797510).
	PubMed:22246630, PubMed:23661706). Activated by direct binding to LPS without the need of
	treatment with cytotoxic APP peptides found Alzheimer\\\'s patient brains (PubMed:15123740,
	(PubMed:26508369). Involved in cell death induced by endoplasmic reticulum stress and by
	LPS-induced IL6 secretion, this activity may not require caspase enzymatic activity
	the recruitment and activation of immune cells and triggers mucosal inflammation. Involved in
	as in IL18 secretion. Pyroptosis limits bacterial replication, while cytokine secretion promotes
	ultimately results in pyroptosis of infected cells and their extrusion into the gut lumen, as well
	stages of the infection, LPS from cytosolic Salmonella triggers CASP4 activation, which
	typhimurium replication in colonic epithelial cells during infection (PubMed:25121752). In later
	(PubMed:24879791, PubMed:25964352). Plays a crucial role in the restriction of Salmonella
	IL1A, IL18 and HMGB1 release in response to non-canonical inflammasome activators
	inflammasome and CASP1, promotes pyroptosis, through GSDMD cleavage and activation, and
	PubMed:26173988, PubMed:26508369, PubMed:25964352). Independently of NLRP3
	cholera enterotoxin subunit B and cytosolic LPS (PubMed:22246630, PubMed:26174085,
	and IL1B and IL18 secretion in response to non-canonical activators, such as UVB radiation,

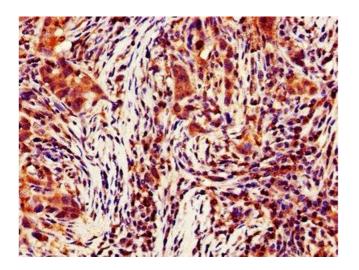
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300
	Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

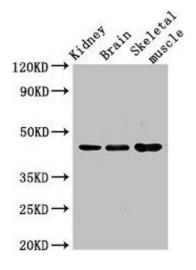
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## Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

### Images





#### Immunohistochemistry

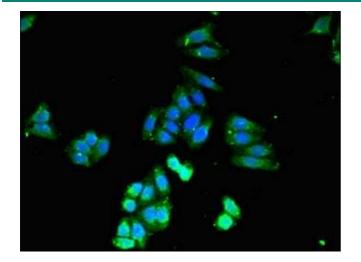
**Image 1.** IHC image of ABIN7146946 diluted at 1:700 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

#### Western Blotting

**Image 2.** Western Blot Positive WB detected in: Mouse kidney tissue, Mouse brain tissue, Mouse skeletal muscle tissue All lanes: CASP4 antibody at 3.5 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 44, 37, 14, 31, 19 kDa Observed band size: 44 kDa

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### Images



#### Immunofluorescence

**Image 3.** Immunofluorescent analysis of HepG2 cells using ABIN7146946 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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