

anti- Caspase 4 antibody

Product Information

Catalog No.:	FNab01291
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3 , -20°C for 24 months (Avoid repeated freeze / thaw cycles.)

Background

Inflammatory caspase, essential effector of NLRP3 inflammasome-dependent CASP1 activation and IL1B and IL18 secretion in response to non-canonical activators, such as UVB radiation, cholera enterotoxin subunit B and cytosolic LPS(PubMed:22246630, PubMed:26174085, PubMed:26173988, PubMed:26508369, PubMed:25964352). Independently of NLRP3 inflammasome and CASP1, promotes pyroptosis, through GSDMD cleavage and activation, and IL1A, IL18 and HMGB1 release in response to non-canonical inflammasome activators(PubMed:24879791, PubMed:25964352). Plays a crucial role in the restriction of Salmonella typhimurium replication in colonic epithelial cells during infection(PubMed:25121752). In later stages of the infection, LPS from cytosolic Salmonella triggers CASP4 activation, which ultimately results in pyroptosis of infected cells and their extrusion into the gut lumen, as well as in IL18 secretion. Pyroptosis limits bacterial replication, while cytokine secretion promotes the recruitment and activation of immune cells and triggers mucosal inflammation. Involved in LPS-induced IL6 secretion; this activity may not require caspase enzymatic activity(PubMed:26508369). Involved in cell death induced by endoplasmic reticulum stress and by treatment with cytotoxic APP peptides found Alzheimer's patient brains(PubMed:15123740, PubMed:22246630, PubMed:23661706). Activated by direct binding to LPS without the need of an upstream sensor(PubMed:25119034). Does not directly process IL1B(PubMed:7743998, PubMed:7797592, PubMed:7797510).

Immunogen information

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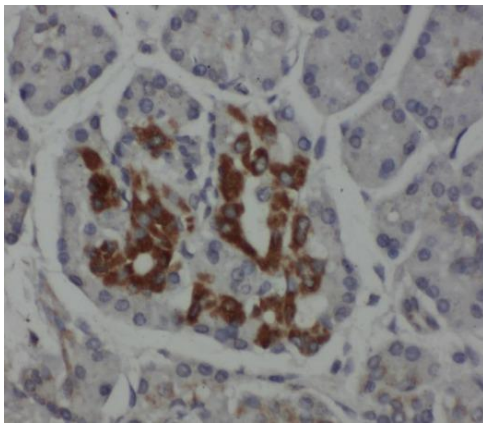
www.fn-test.com

Immunogen: caspase 4, apoptosis-related cysteine peptidase
Synonyms: CASP 4, CASP4, Caspase 4, Caspase4, ICE(rel) II, ICE(rel)II, ICEREL II, ICH 2, ICH2, Mih1/TX, Protease ICH 2, Protease TX, TX
Observed MW: 43 kDa
Uniprot ID : P49662

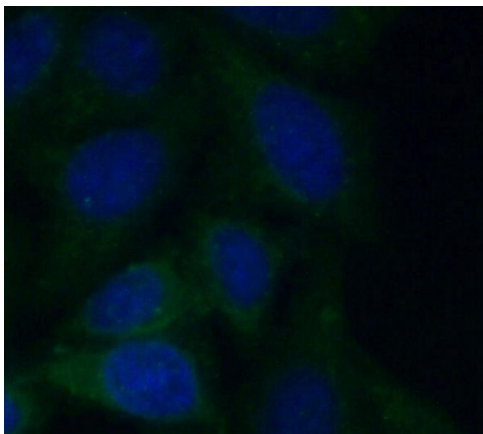
Application

Reactivity: Human
Tested Application: ELISA, WB, IHC
Recommended dilution: WB: 1:200-1:2000; IHC: 1:20-1:200; IF: 1:50-1:500

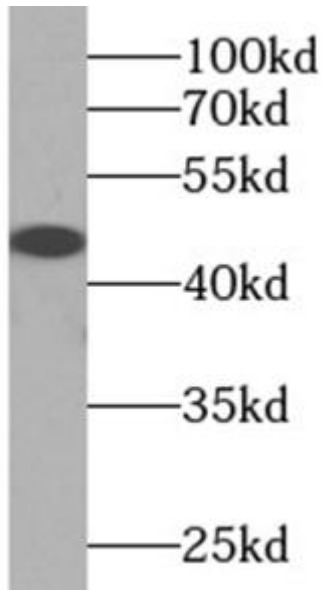
Image:



Immunohistochemistry of paraffin-embedded human pancreas cancer using FNab01291(CASP4 antibody) at dilution of 1:50



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FNab01291 (Caspase 4 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



SGC-7901 cells were subjected to SDS PAGE followed by western blot with FNab01291(CASP4 antibody) at dilution of 1:300