Datasheet for ABIN3043748

anti-Caspase 9 antibody (AA 3-228)

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Overview

Quantity:	100 µg
Target:	Caspase 9 (CASP9)
Binding Specificity:	AA 3-228
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 9 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Caspase-9/CASP9 Antibody Picoband®
Immunogen:	E.coli-derived human Caspase-9 recombinant protein (Position: E3-D228). Human Caspase-9 shares 63% amino acid (aa) sequence identity with mouse Caspase-9.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Caspase-9/CASP9 Antibody Picoband® (ABIN3043748). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Caspase 9 (CASP9)
Alternative Name:	CASP9 (CASP9 Products)
Background:	Synonyms: Caspase-9,CASP-9,3.4.22.62,Apoptotic protease Mch-6,Apoptotic protease-activating factor 3,APAF-3,ICE-like apoptotic protease 6,ICE-LAP6,Caspase-9 subunit p35,Caspase-9 subunit p10,CASP9,MCH6, Tissue Specificity: Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes. . Background: CASP9 is also known as MCH6 or APAF3. This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1, this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. Sequence Similarities: Belongs to the peptidase C14A family.
Molecular Weight:	35 kDa
Gene ID:	842
UniProt:	P55211
Pathways:	MAPK Signaling, RTK Signaling, Apoptosis, Caspase Cascade in Apoptosis, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human 1. Cingeetham A, et al. Association of caspase9 promoter polymorphisms with the susceptibility of AML in south Indian subjects. Tumour Biol, 2014 Sep. 2. Xu D, et al. Apoptotic block in colon cancer cells may be rectified by lentivirus mediated overexpression of caspase-9. Acta Gastroenterol Belg, 2013 Dec.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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 at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:

Bai, Yang, Luo: "Effects of 5-hydroxy-4'-nitro-7-propionyloxy-genistein on inhibiting proliferation and invasion via activating reactive oxygen species in human ovarian cancer A2780/DDP cells." in: **Oncology letters**, Vol. 15, Issue 4, pp. 5227-5235, (2018) (PubMed).

Ji, Geng, Zhou, Wei, Chen: "Chinese herbal medicine Yougui Pill reduces exogenous glucocorticoid-induced apoptosis in anterior pituitary cells." in: **Neural regeneration research**, Vol. 11, Issue 12, pp. 1962-1968, (2016) (PubMed).

Ding, Wang, Zhao, Sun, Zhai: "Protective Effects of Baicalin on A?????-Induced Learning and Memory Deficit, Oxidative Stress, and Apoptosis in Rat." in: **Cellular and molecular neurobiology**, Vol. 35, Issue 5, pp. 623-32, (2015) (PubMed).

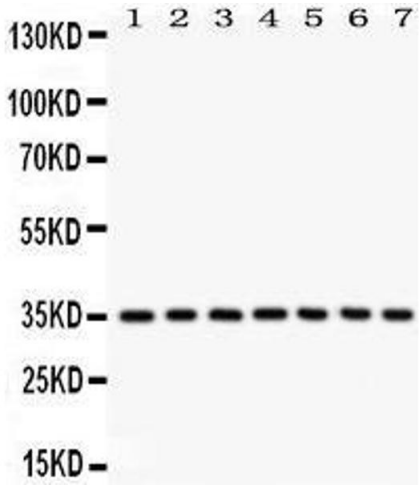
Yang, Li, Liu, Shi, Zhang: "Inhibitory effect of tetramethylpyrazine preconditioning on overload training-induced myocardial apoptosis in rats." in: **Chinese journal of integrative medicine**, Vol. 21, Issue 6, pp. 423-30, (2015) (PubMed).

Chen, Peng, Rowat, Gao, Zhang, Wang, Zhang, Wang, Qu: "The effect of concentration and duration of normobaric oxygen in reducing caspase-3 and -9 expression in a rat-model of focal cerebral ischaemia." in: **Brain research**, Vol. 1618, pp. 205-11, (2015) (PubMed).

Publications

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Anti- Caspase-9 Picoband antibody, Western blotting All lanes: Anti Caspase-9 at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: SMMC Whole Cell Lysate at 40ug Lane 3: 293T Whole Cell Lysate at 40ug Lane 4: JURKAT Whole Cell Lysate at 40ug Lane 5: RAJI Whole Cell Lysate at 40ug Lane 6: CEM Whole Cell Lysate at 40ug Lane 7: HUT Whole Cell Lysate at 40ug Predicted bind size: 35KD Observed bind size: 35KD