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Datasheet for ABIN6137975

anti-Caspase 9 antibody (AA 1-98)

7 Images

3 Publications

Overview

Quantity:	100 µL
Target:	Caspase 9 (CASP9)
Binding Specificity:	AA 1-98
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-98 of human Caspase-9 (NP_001220.2).
Sequence:	MDEADRLLLR RCRLRLVEEL QVDQLWDALL SRELFRPHMI EDIQRAGSGS RRDQARQLII DLETRGSQAL PLFISCLEDT GQDMLASFLR TNRQAAKL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target: Caspase 9 (CASP9)

Alternative Name: CASP9 ([CASP9 Products](#))

Background: 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.,CASP9,APAF-3,APAF3,ICE-LAP6,MCH6,PPP1R56,caspase-9,casp9,Caspase 9,Signal Transduction,ErbB-HER Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Caspases,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,Death Receptor Signaling Pathway,Immunology & Inflammation,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,CASP9

Molecular Weight: 17 kDa/30 kDa/36 kDa/46 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: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

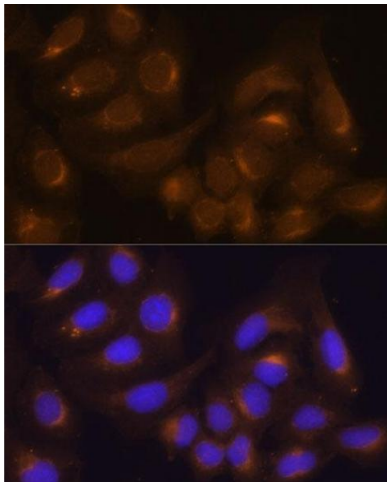
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Qian, Ma, Wu, Yu, Lin, Ying, Wen, Gao: "G004, a synthetic sulfonylurea compound, exerts anti-atherosclerosis effects by targeting SIRT1 in ApoE^{-/-} mice." in: **Vascular pharmacology**, Vol. 89, pp. 49-57, (2017) ([PubMed](#)).

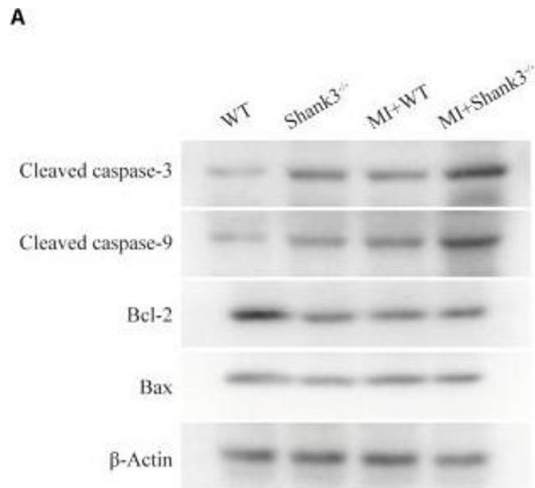
Zou, Wang, Hu, Zheng, Xu, Li: "Specific tumor-derived CCL2 mediated by pyruvate kinase M2 in colorectal cancer cells contributes to macrophage recruitment in tumor microenvironment." in: **Tumour biology**, Vol. 39, Issue 3, pp. 1010428317695962, (2017) ([PubMed](#)).

Images



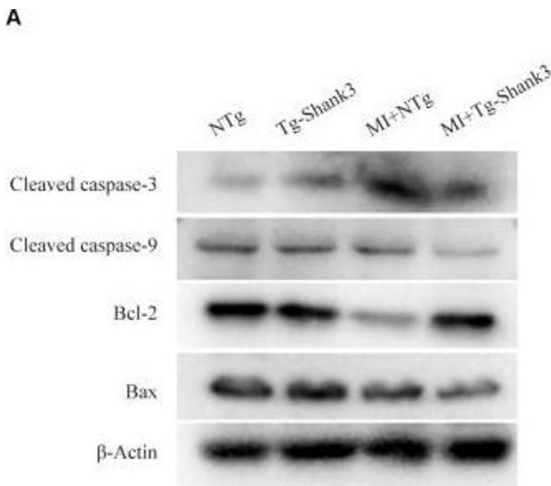
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using Caspase-9 antibody (ABIN6131534, ABIN6137975, ABIN6137977 and ABIN6213766) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Shank3 knockout induces cardiomyocytes apoptosis. (A-E) Immunoblots and quantitative analyses of cleaved caspase-3, cleaved caspase-9, Bcl-2, Bax, and β -actin. (n = 4-8/group) (F,G) Representative images of TUNEL-stained primary neonatal cardiomyocytes (F) and apoptotic index (G). *p < 0.05 vs. WT, #p < 0.05 vs. MI + WT, p < 0.05 vs. Shank3^{-/-}, p < 0.05 vs. Con, p < 0.05 vs. Con + Ad-LacZ, p < 0.05 vs. Con + Ad-sh-Shank3, p < 0.05 vs. H, p < 0.05 vs. H + Ad-LacZ. Con, control and H, hypoxia. - figure provided by CiteAb. Source: PMID32982797



Western Blotting

Image 3. Shank3 overexpression inhibits cardiomyocytes apoptosis. (A-E) Immunoblots and quantitative analyses of cleaved caspase-3, cleaved caspase-9, Bcl-2, Bax, and β -actin. (n = 4-8/group) (F,G) Representative images of TUNEL-stained primary neonatal cardiomyocytes (F) and apoptotic index (G). *p < 0.05 vs. NTg, #p < 0.05 vs. MI + NTg, p < 0.05 vs. Tg-Shank3, p < 0.05 vs. Con, p < 0.05 vs. Con + Ad-Control, p < 0.05 vs. Con + Ad-Shank3, p < 0.05 vs. H, p < 0.05 vs. H + Ad-Control. Con, control and H, hypoxia. - figure provided by CiteAb. Source: PMID32982797

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6137975.