Datasheet for ABIN2856878

anti-Caspase 9 antibody

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Overview

Quantity:	100 µL
Target:	Caspase 9 (CASP9)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Caspase 9. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Rat
Characteristics:	Rabbit polyclonal antibody to Caspase-9 (caspase 9, apoptosis-related cysteine peptidase) Caspase 9 antibody [N2C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Caspase 9 (CASP9)
Alternative Name:	caspase 9 (CASP9 Products)

Target Details

Molecular Weight:	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: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.55 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

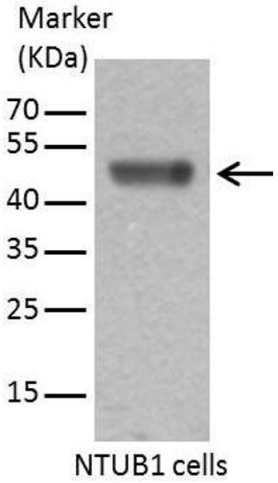
Product cited in:	Lam, Liang, Jiang, Peng: "Albendazole-Schisandrin B Co-Therapy on Angiostrongylus cantonensis-Induced Meningoencephalitis in Mice." in: **Biomolecules**, Vol. 10, Issue 7, (2020) (PubMed). Wu, Lau, Yu, Cai, Dai, Ok Kim, Jin, Xu: "Extracellular signal-regulated kinase 8-mediated NF-κB

Publications

activation increases sensitivity of human lung cancer cells to arsenic trioxide." in: **Oncotarget**, Vol. 8, Issue 30, pp. 49144-49155, (2018) (PubMed).

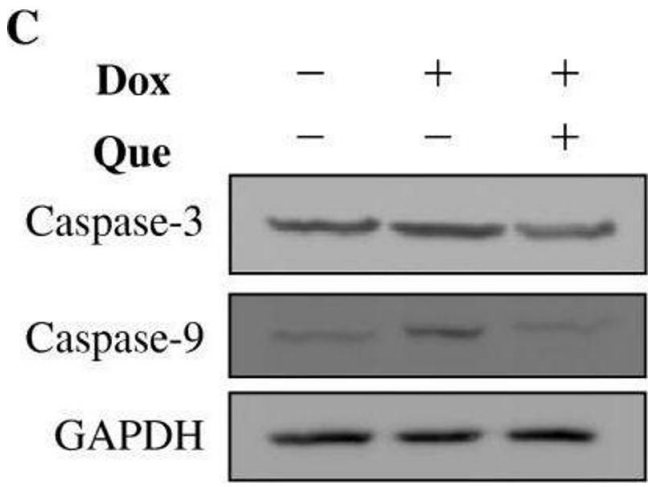
Xu, Wu, Zheng, Yu, Yang, Yao, Zhou, Ching, Lau: "Proteome profiling of cadmium-induced apoptosis by antibody array analyses in human bronchial epithelial cells." in: **Oncotarget**, Vol. 7, Issue 5, pp. 6146-58, (2017) (PubMed).

Images



Western Blotting

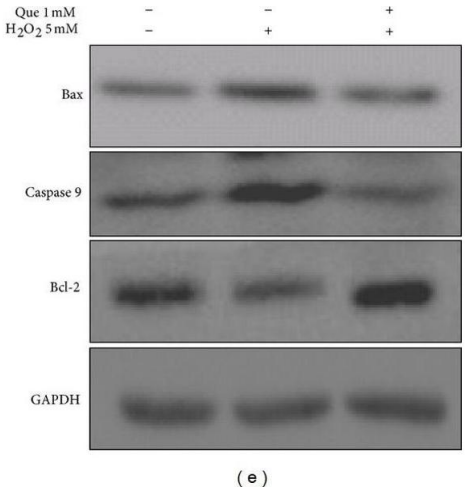
Image 1. WB Image Sample (30 ug of whole cell lysate) A: 293T 10% SDS PAGE antibody diluted at 1:1000



Western Blotting

Image 2. Effects of quercetin on doxorubicin-induced changes of cell viability, cell apoptosis and cell morphology in H9C2 cells. (A) MTT-based viability assays were performed on H9C2 cell cultures following treatments with different concentrations of quercetin (50 μM, 100 μM, 150 μM and 200 μM) or left untreated. Values were normalized against untreated samples and were the average of 4 independent measurements +/- the standard deviation. The statistic analysis was performed with two group paired Student t-test. (B) Typical dot plot diagrams detected annexin V-FITC and PI staining represent untreated, doxorubicin-treated, and quercetin-pretreated followed by doxorubicin-treated cells. The x-axis and y-axis stand for the intensity of annexin V-FITC and PI, respectively. The lower left area of presented background staining by annexin V-

FITC and PI in normal cells, and apoptotic signals located in the right area. This figure is representative of 4 replicates. The statistic analysis of the replicates was listed in right panel. (C) The levels of caspase 3 and caspase 9 in H9C2 cells were detected by immunoblotting. GAPDH served as a sample loading control. (D) Cell morphology and protein location of F-actin in H9C2 cells were analyzed by immunostaining. H9C2 cells on coverslips were either left untreated, treated with doxorubicin or pre-treated with quercetin prior to doxorubicin treatment before fixation and staining. F-actin was stained with phalloidin and nuclei were stained with DAPI. Each set of five fields were taken using the same exposure and images are representative of five different fields. In (B)~(D), H9C2 cells were untreated, 0.45 μM of doxorubicin for 24 h, or 100 μM of quercetin for 4 h followed by 0.45 μM of doxorubicin for 24 h. - figure provided by CiteAb. Source: PMID32635653



Western Blotting

Image 3. Effects of quercetin on cell apoptosis in H2O2-treated H9C2 cells. ((a), (b), and (c)) Typical dot plots of annexin V-FITC and PI are cells untreated, H2O2 treated, and quercetin pretreated followed by H2O2 treatment. The x-axis and y-axis represent the intensity of annexin V-FITC and PI, respectively. The lower left area of (a), (b), and (c) presented background staining by annexin V-FITC and PI in normal cells and apoptosis signals located in the right area. This figure is representative of 3 replicates. (d) The full lengths of DNA in H9C2 cells were detected by FACS. The x-axis shows the intensity of PI, and the y-axis shows the number of cells. (e) The levels of Bax, BCL-2, and caspase 9 in H9C2 cells were detected by immunoblotting. GAPDH served as a sample loading control. - figure provided by CiteAb. Source: PMID32635653