

Datasheet for ABIN3043696
anti-Caspase 2 antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	Caspase 2 (CASP2)
Binding Specificity:	AA 417-439, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Caspase-2(CASP2) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Caspase-2(417-439aa REGYAPGTEFHRCKEMSEYCSSTL), identical to the related rat and mouse sequences.
Sequence:	REGYAPGTEF HRCKEMSEYC STL
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Caspase-2(CASP2) detection. Tested with WB in

Product Details

Human,Mouse,Rat.

Gene Name: caspase 2, apoptosis-related cysteine peptidase

Protein Name: Caspase-2(CASP-2)

Purification: Immunogen affinity purified.

Target Details

Target: Caspase 2 (CASP2)

Alternative Name: CASP2 ([CASP2 Products](#))

Background: Caspase-2, which is involved in stress-induced apoptosis, is recruited into a large protein complex, the molecular composition of which remains elusive. activation of caspase-2 occurs in a complex that contains the death domain-containing protein PIDD, whose expression is induced by p53, and the adaptor protein RAIDD. Increased PIDD expression resulted in spontaneous activation of caspase-2 and sensitization to apoptosis by genotoxic stimuli. Caspase-2 acts both as a positive and negative cell death effector, depending upon cell lineage and stage of development.

Synonyms: Apoptosis related cysteine peptidase antibody|CASP 2 antibody|Casp 2L Pro antibody|CASP-2 antibody|CASP2 antibody|CASP2_HUMAN antibody|Caspase 2 apoptosis related cysteine protease antibody|Caspase-2 subunit p12 antibody|Caspase2 antibody|Developmentally down regulated 2 antibody|ICH 1 antibody|ICH 1 protease antibody|ICH 1L antibody|ICH 1L/1S antibody|ICH1 antibody|ICH1 protease antibody|ICH1L antibody|ICH1L/1S antibody|NEDD 2 antibody|NEDD-2 antibody|NEDD2 antibody|NEDD2 apoptosis regulatory gene antibody|Neural precursor cell expressed antibody|Neural precursor cell expressed developmentally down regulated 2 antibody|Neural precursor cell expressed developmentally down-regulated protein 2 antibody|Protease ICH-1 antibody

UniProt: [P42575](#)

Pathways: [Apoptosis, Caspase Cascade in Apoptosis, Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

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 Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Kan, Zhou, Jin, Yang: "Effects of PDTC on NF- κ B expression and apoptosis in rats with severe acute pancreatitis-associated lung injury." in: **International journal of clinical and experimental medicine**, Vol. 8, Issue 3, pp. 3258-70, (2015) ([PubMed](#)).

Xu, Liu, Zhang, Wang, Wang, Yang, Huo, Sun: "Apoptosis-related protein expression in rabbits with blast brain injury following early hyperbaric oxygen therapy." in: **Neural regeneration research**, Vol. 7, Issue 17, pp. 1318-24, (2015) ([PubMed](#)).

Ding, Wang, Zhao, Sun, Zhai: "Protective Effects of Baicalin on A β -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](#)).

Li, Wang, Wang: "Radioprotective activity of neutral polysaccharides isolated from the fruiting bodies of Hohenbuehelia serotina." in: **Physica medica : PM : an international journal devoted to the applications of physics to medicine and biology : official journal of the Italian Association of Biomedical Physics (AIFB)**, Vol. 31, Issue 4, pp. 352-9, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-Caspase-2 antibody, Western blotting Lane 1: CEM Cell Lysate Lane 2: SMMC Cell Lysate