

Datasheet for ABIN3043802 anti-Caspase 3 antibody (AA 67-175)

5 Images

103 Publications



Overview

Quantity:	100 µg
Target:	Caspase 3 (CASP3)
Binding Specificity:	AA 67-175
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Caspase-3(CASP3) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Caspase 3 recombinant protein (Position: T67-D175). Human Caspase 3 shares 86% and 90% amino acid (aa) sequences identity with mouse and rat Caspase 3, respectively.
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Caspase-3(CASP3) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: caspase 3, apoptosis-related cysteine peptidase

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Product Details

Purification:

Immunogen affinity purified.

Target Details

Target:	Caspase 3 (CASP3)
Alternative Name:	CASP3 (CASP3 Products)
Background:	Caspase 3 is a caspase protein which interacts with Survivin, XIAP, CFLAR, Caspase 8, HCLS1,
	Deleted in Colorectal Cancer, TRAF3 and GroEL. This gene which is located on 4q35 encodes a
	protein that is 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 that undergo proteolytic processing at conserved aspartic
	residues to produce two subunits, large and small, that dimerize to form the active enzyme. It i
	the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which
	is associated with neuronal death in Alzheimer's disease. And the caspase-3 activation in hear
	failure sequentially cleaves SRF and generates a truncated SRF that appears to function as a
	dominant-negative transcription factor. Additionally, the caspase-3 influence on bone mineral
	density should be considered in any in vivo application of caspase-3 inhibitors to the treatment
	of human disease. In erythroid precursors undergoing terminal differentiation, Hsp70 prevents
	active CASP3 from cleaving GATA1 and inducing apoptosis.
	Synonyms: A830040C14Rik antibody Apopain antibody Apopain precursor antibody CASP 3
	antibody CASP-3 antibody CASP3 antibody CASP3_HUMAN antibody Casp3a antibody Caspas
	3 antibody Caspase 3 apoptosis related cysteine protease antibody Caspase 3 p12 subunit
	antibody Caspase 3 p17 subunit antibody Caspase 3, apoptosis-related cysteine peptidase
	antibody Caspase 3, apoptosis-related cysteine protease antibody Caspase 3, apoptosis-relate
	cysteine protease a antibody Caspase-3 subunit p12 antibody Caspase3 antibody CC3
	antibody CPP 32 antibody CPP-32 antibody CPP32 antibody CPP32B antibody Cysteine
	protease CPP32 antibody EC 3.4.22.56 antibody Human cysteine protease CPP32 isoform
	alpha mRNA complete cds antibody ICE3 antibody LICE antibody mldy
	antibody OTTHUMP00000165052 antibody OTTHUMP00000165053
	antibody OTTHUMP00000165054 antibody PARP cleavage protease antibody Procaspase3
	antibody Protein Yama antibody SCA 1 antibody SCA-1 antibody SCA1 antibody SREBP
	cleavage activity 1 antibody Yama antibody Yama protein antibody
Gene ID:	836
UniProt:	P42574

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Target Details	
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Sensory Perception of Sound, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Activated T Cell Proliferation
Application Details	
Application Notes:	 WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Caspase 3 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/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:
 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:

An, Liu, She, Wu, Tian, Shi, Hao, Ren, Yang, Lu, Yang, Wu: "Replication of hepatitis E virus in the

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Shi, Wang, Zhao, Long, Deng, Wang: "Bone marrow mesenchymal stem cell-derived exosomal miR-21 protects C-kit+ cardiac stem cells from oxidative injury through the PTEN/PI3K/Akt axis." in: **PLoS ONE**, Vol. 13, Issue 2, pp. e0191616, (2018) (PubMed).

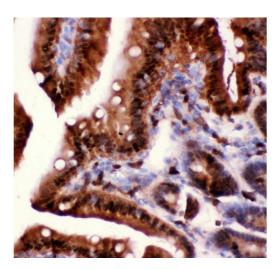
Bai, Yang, Luo: "Effects of 5-hydroxy-4'-nitro-7-propionyloxy-genistein on inhibiting proliferation and invasion via activating reactive oxygen species in human ovarian cancer A2780/DDP cells." in: **Oncology letters**, Vol. 15, Issue 4, pp. 5227-5235, (2018) (PubMed).

Yang, Shi, Soomro, Hu, Du, She: "Hepatitis E Virus Induces Hepatocyte Apoptosis via Mitochondrial Pathway in Mongolian Gerbils." in: **Frontiers in microbiology**, Vol. 9, pp. 460, (2018) (PubMed).

Wang, Li, Yang, Gao, Lin, Wang, Zhou, Hu: "Ginsenoside Rb1 inhibit apoptosis in rat model of Alzheimer's disease induced by Aβ1-40." in: **American journal of translational research**, Vol. 10, Issue 3, pp. 796-805, (2018) (PubMed).

There are more publications referencing this product on: Product page

Images



Immunohistochemistry

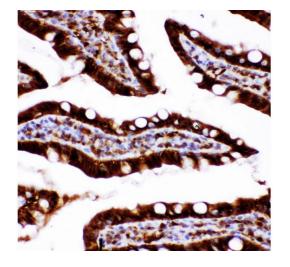
Image 1. Anti-Caspase3 antibody, IHC(P) IHC(P): Mouse Intestine Tissue

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100KD -
70KD -
55KD -
35KD
25KD -
15KD -

Western Blotting

Image 2. Anti- Caspase3 antibody, Western blotting All lanes: Anti Caspase3 at 0.5ug/ml WB: Recombinant Human Caspase3 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Immunohistochemistry

Image 3. Anti-Caspase3 antibody, IHC(P) IHC(P): Rat Intestine Tissue

Please check the product details page for more images. Overall 5 images are available for ABIN3043802.