



Datasheet for ABIN3020698

anti-Caspase 3 antibody (AA 100-200)



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Overview

Quantity:	100 µL
Target:	Caspase 3 (CASP3)
Binding Specificity:	AA 100-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 100-200 of human Caspase-3 (NP_004337.2).
Sequence:	MRDVSKEDHS KRSSFVCVLL SHGEEGIFG TNGPVDLKKI TNFFRGDRCR SLTGKPKLFI IQACRGTELD CGIETDSGVD DDMACHKIPV EADFLYAYST A
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Caspase 3 (CASP3)
Alternative Name:	CASP3 (CASP3 Products)
Background:	<p>This gene encodes a protein which 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 which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.,CPP32, CPP32B, SCA-1, Active Caspase 3, CASP3, active Caspase-3, Caspase 3, Caspase-3 p12, caspase-3, Signal Transduction, ErbB-HER Signaling Pathway, Cell Biology & Developmental Biology, Apoptosis, Caspases, Mitochondrial Control of Apoptosis, Inhibition of Apoptosis, Death Receptor Signaling Pathway, Hippo Signaling Pathway, Neuroscience, Neurodegenerative Diseases, Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease, CASP3</p>
Molecular Weight:	31 kDa
Gene ID:	836
UniProt:	P42574
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,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
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

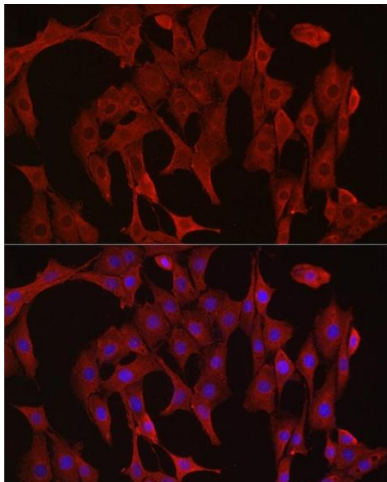
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

- Product cited in:
- Wu, Zhang, Qi, Zhang, Li, Li, Lin, Bai, Liu, Chen, Yang, Xu, Zhang, Yang: "Nicotine promotes atherosclerosis via ROS-NLRP3-mediated endothelial cell pyroptosis." in: **Cell death & disease**, Vol. 9, Issue 2, pp. 171, (2018) ([PubMed](#)).
- Du, Qiao, Chen, Chen, Liu, Lin, Wang, Xie: "Toll-Like Receptor 4 Mediates Methamphetamine-Induced Neuroinflammation through Caspase-11 Signaling Pathway in Astrocytes." in: **Frontiers in molecular neuroscience**, Vol. 10, pp. 409, (2017) ([PubMed](#)).

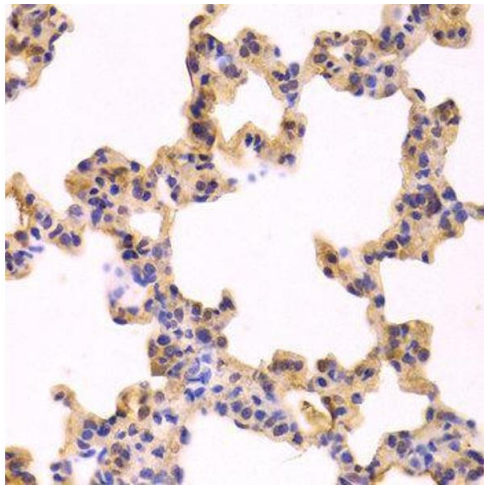
There are more publications referencing this product on: [Product page](#)

Images



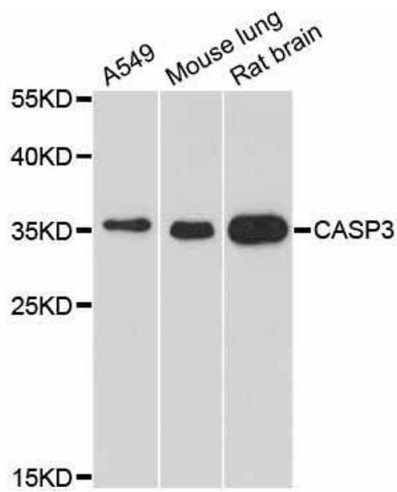
Immunofluorescence

Image 1. Immunofluorescence analysis of PC-12 cells using Caspase 3 antibody (ABIN3020697, ABIN3020698, ABIN3020699, ABIN1512672 and ABIN6213675) at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded Rat lung using CASP3 antibody at dilution of 1:100 (x400 lens).



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using CASP3 antibody.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3020698.