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Datasheet for ABIN6137970

## anti-Caspase 8 antibody (AA 1-479)

12 Images

17 Publications

### Overview

Quantity:	100 µL
Target:	Caspase 8 (CASP8)
Binding Specificity:	AA 1-479
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-479 of human Caspase-8 (NP_001073593.1).
Sequence:	MDFSRNLYDI GEQLDSEDLA SLKFLSLDYI PQRKQEPIKD ALMLFQRLQE KRMLEESNLS FLKELLFRIN RLDLLITYLN TRKEEMEREL QTPGRAQISA YRVMLYQISE EVSRSELRSF KFLLEEISK CKLDDDMNLL DIFIEMEKRV ILGEGKLDIL KRVCAQINKS LLKIINDYEE FSKGEELCGV MTISDSPREQ DSESQTLDKV YQMKS KPRGY CLIINNHNFA KAREKVPKLH SIRDRNGTHL DAGALTTTTE ELHFEIKPHD DCTVEQIYEI LKIYQLMDHS NMDCFICCIL SHGDKGIIYG TDGQEAPIYE LTSQFTGLKC PSLAGKPKVF FIQACQGDNY QKGIPVETDS EEQPYLEMDL SSPQTRYIPD EADFLMGMAT VNNCVSYRNP AEGTWYIQLS CQSLRERCPR GDDILTILTE VNYEVS NKDD KKNMGKQMPQ PTFTLRKKLV FPSD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

## Product Details

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Characteristics: Polyclonal Antibodies

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Purification: Affinity purification

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## Target Details

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Target: Caspase 8 (CASP8)

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Alternative Name: Casp8 ([CASP8 Products](#))

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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 composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined.,ALPS2B,CAP4,Casp-8,FLICE,MACH,MCH5,Caspase 8,CASP8,Caspase-8,caspase-8,Cancer,Invasion and Metastasis,Signal Transduction,ErbB-HER Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Caspases,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,Ubiquitin,Death Receptor Signaling Pathway,Endocrine & Metabolism,Immunology & Inflammation,Toll-like Receptor Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Casp8

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Molecular Weight: 25-32 kDa/45- 61 kDa

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Gene ID: 841

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UniProt: [Q14790](#)

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Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [TLR Signaling](#), [Activation of Innate immune Response](#), [Tube Formation](#), [Positive Regulation of Endopeptidase Activity](#), [Toll-Like Receptors Cascades](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200

Comment: HIGH QUALITY

Restrictions: For Research Use only

## Handling

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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.

Storage: -20 °C

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

## Publications

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Product cited in: Chen, Deng, Gan, Li, Huang, Lu, Wei, Su, Luo, Zou, Hong, Cao, Liu, Chi: "NLRP12 collaborates with NLRP3 and NLRC4 to promote pyroptosis inducing ganglion cell death of acute glaucoma." in: **Molecular neurodegeneration**, Vol. 15, Issue 1, pp. 26, (2020) ([PubMed](#)).

Song, Ma, Lu, Zhou, Zhao, Ai, Wei, Lin, Wang, Yan, Jiao: "The protective role of the MKP-5-JNK/P38 pathway in glucolipotoxicity-induced islet  $\beta$ -cell dysfunction and apoptosis." in: **Experimental cell research**, Vol. 382, Issue 1, pp. 111467, (2020) ([PubMed](#)).

Kong, Liu, Zhou, Hou, He, Li, Miao, Yang: "Downregulation of METTL14 increases apoptosis and autophagy induced by cisplatin in pancreatic cancer cells." in: **The international journal of biochemistry & cell biology**, Vol. 122, pp. 105731, (2020) ([PubMed](#)).

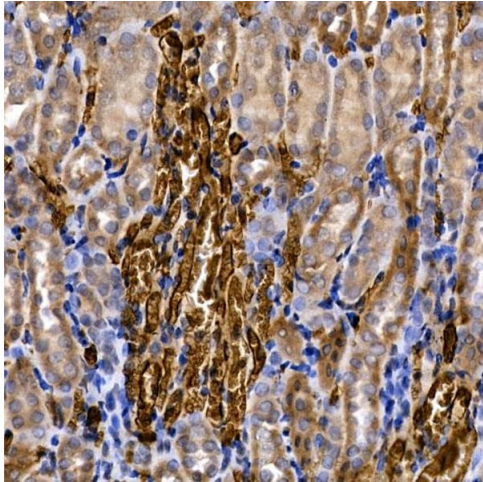
Zhao, Zhu, Bu, Zhou, Bai, Guo, Gao, Lu: "Triggering apoptosis by oroxylin A through caspase-8 activation and p62/SQSTM1 proteolysis." in: **Redox biology**, Vol. 29, pp. 101392, (2020) ([PubMed](#)).

Zhou, Li, Han, Feng, Liu, Chen, Liu, Zhao, Jin: "Emodin induced necroptosis in the glioma cell line U251 via the TNF- $\alpha$ /RIP1/RIP3 pathway." in: **Investigational new drugs**, Vol. 38, Issue 1, pp. 50-

59, (2020) ([PubMed](#)).

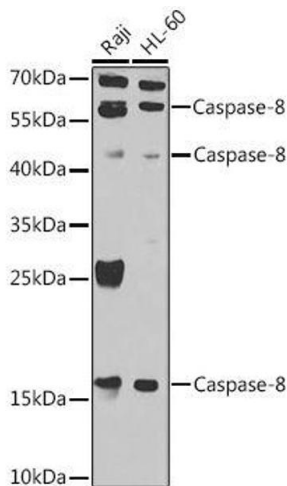
There are more publications referencing this product on: [Product page](#)

Images



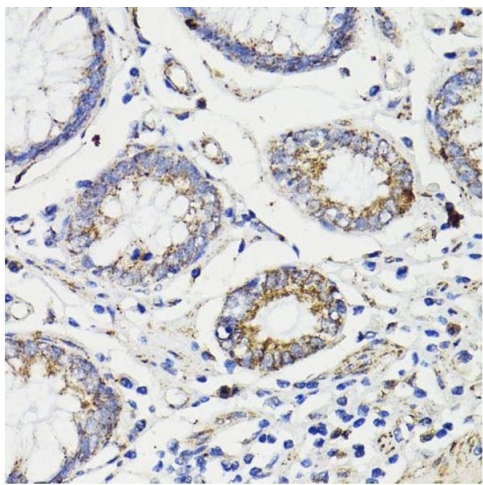
**Immunohistochemistry**

**Image 1.** Immunohistochemistry of paraffin-embedded human colon carcinoma using Caspase-8 Rabbit pAb (ABIN6131530, ABIN6137970, ABIN6137972 and ABIN6213676) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



**Western Blotting**

**Image 2.** Western blot



**Immunohistochemistry**

**Image 3.** IHC

Please check the [product details page](#) for more images. Overall 12 images are available for ABIN6137970.