

产品名称: Caspase-8 (3Q3) Rabbit Monoclonal Antibody
产品货号: AMRe07982



产品概述 (Summary)

产品名称 (Production Name)	Caspase-8 (3Q3) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,IF-P
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CASP8
别名 (Alternative Names)	Caspase 8; CASP-8; Apoptotic cysteine protease; Apoptotic protease Mch-5; FADD-homologous ICE/ced-3-like protease; ICE-like apoptotic protease 5; MORT1-associated ced-3 homolog; MACH; Caspase-8 subunit p18; CAP4;
基因 ID (Gene ID)	841.0
蛋白 ID (SwissProt ID)	Q14790.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:100-1:200,IF-P 1:100-1:200
蛋白分子量 (Molecular Weight)	55kDa

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研究背景 (Background)

Caspases are a family of cytosolic aspartate specific cysteine proteases. Involved in the activation cascade of caspases responsible for apoptosis execution. Activated caspase-8 cleaves and activates downstream effector caspases such as caspase-1, -3, -6, and -7. Thiol protease that plays a key role in programmed cell death by acting as a molecular switch for apoptosis, necroptosis and pyroptosis, and is required to prevent tissue damage during embryonic development and adulthood (By similarity). Initiator protease that induces extrinsic apoptosis by mediating cleavage and activation of effector caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death (PubMed:[23516580](http://www.uniprot.org/citations/23516580)), PubMed:[8681376](http://www.uniprot.org/citations/8681376)), PubMed:[8681377](http://www.uniprot.org/citations/8681377)), PubMed:[9006941](http://www.uniprot.org/citations/9006941)), PubMed:[9184224](http://www.uniprot.org/citations/9184224)), PubMed:[8962078](http://www.uniprot.org/citations/8962078)). Cleaves and activates effector caspases CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10 (PubMed:[8962078](http://www.uniprot.org/citations/8962078)), PubMed:[9006941](http://www.uniprot.org/citations/9006941)). Binding to the adapter molecule FADD recruits it to either receptor TNFRSF6/FAS mediated or TNFRSF1A (PubMed:[8681376](http://www.uniprot.org/citations/8681376)), PubMed:[8681377](http://www.uniprot.org/citations/8681377)). The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation (PubMed:[9184224](http://www.uniprot.org/citations/9184224)). The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases (PubMed:[9184224](http://www.uniprot.org/citations/9184224)). Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC (PubMed:[9184224](http://www.uniprot.org/citations/9184224)). In addition to extrinsic apoptosis, also acts as a negative regulator of necroptosis: acts by cleaving RIPK1 at 'Asp-324', which is crucial to inhibit RIPK1 kinase activity, limiting TNF-induced apoptosis, necroptosis and inflammatory response (PubMed:[31827280](http://www.uniprot.org/citations/31827280)), PubMed:[31827281](http://www.uniprot.org/citations/31827281)). Also able to initiate pyroptosis by mediating cleavage and activation of gasdermin-D (GSDMD): GSDMD cleavage promoting release of the N-terminal moiety (Gasdermin-D, N-terminal) that binds to membranes and forms pores, triggering pyroptosis (By similarity). Initiates pyroptosis following inactivation of MAP3K7/TAK1 (By similarity). Also acts as a regulator of innate immunity by mediating cleavage and inactivation of N4BP1 downstream of TLR3 or TLR4, thereby promoting cytokine production (By similarity). May participate in the Granzyme B (GZMB) cell death pathways (PubMed:[8755496](http://www.uniprot.org/citations/8755496)). Cleaves PARP1 (PubMed:[8681376](http://www.uniprot.org/citations/8681376)).

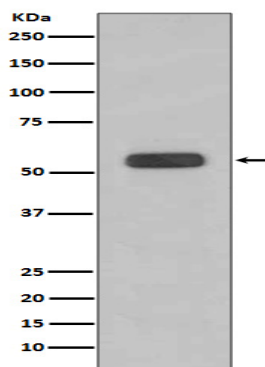
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研究领域 (Research Area)

Cell Biology

图片 (Image Data)



Western blot analysis of Caspase-8 expression in HeLa cell lysate.

注意事项 (Note)

For research use only .