Product Name: Caspase-8 (3Q3) Rabbit Monoclonal

Antibody

Catalog #: AMRe07982



Summary

Production Name Caspase-8 (3Q3) Rabbit Monoclonal Antibody

Description Rabbit Monoclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal Form Liquid

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

Buffer preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Purification Affinity purification

Immunogen

Gene Name CASP8

Caspase 8; CASP-8; Apoptotic cysteine protease; Apoptotic protease Mch-5; FADD-

Alternative Names homologous ICE/ced-3-like protease; ICE-like apoptotic protease 5; MORT1-associated

ced-3 homolog; MACH; Caspase-8 subunit p18; CAP4;

Gene ID 841.0 **SwissProt ID** Q14790.

Application

Dilution Ratio WB 1:1000-1:5000, IHC-P/IF-P 1:100-1:200

Molecular Weight 55kDa

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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, PubMed:8681376, PubMed:8681377, PubMed:9006941, PubMed:9184224, PubMed:8962078). Cleaves and activates effector caspases CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10 (PubMed: 8962078, PubMed:9006941). Binding to the adapter molecule FADD recruits it to either receptor TNFRSF6/FAS mediated or TNFRSF1A (PubMed: 8681376, PubMed: 8681377). The resulting aggregate called death- inducing signaling complex (DISC) performs CASP8 proteolytic activation (PubMed: 9184224). The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases (PubMed:9184224). Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC (PubMed: 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, PubMed: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).

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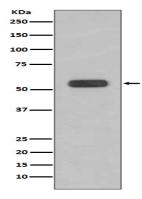
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May participate in the Granzyme B (GZMB) cell death pathways (PubMed:8755496). Cleaves PARP1 (PubMed:8681376).

Research Area

Image Data



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

Note

For research use only.

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