

Anti-Active+Pro Caspase-9 Antibody [SC65-05] - BSA and Azide free

HA750238



| | |
|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse |
| Applications: | WB, IP |
| Molecular Wt: | Predicted band size: 46 kDa |
| Clone number: | SC65-05 |

Description: Caspase-9 belongs to a family of caspases, cysteine-aspartic proteases involved in apoptosis and cytokine signalling. Apoptotic signals cause the release of cytochrome c from mitochondria and activation of apaf-1 (apoptosome), which then cleaves the pro-enzyme of caspase-9 into the active dimer form. Regulation of this enzyme occurs through phosphorylation by an allosteric inhibitor, inhibiting dimerization and inducing a conformational change. Correct caspase-9 function is required for apoptosis, leading to the normal development of the central nervous system. Caspase-9 has multiple additional cellular functions that are independent of its role in apoptosis. Nonapoptotic roles of caspase-9 include regulation of necroptosis, cellular differentiation, innate immune response, sensory neuron maturation, mitochondrial homeostasis, corticospinal circuit organization, and ischemic vascular injury.

Immunogen: Recombinant protein within Human Caspase-9 aa 95-335 / 416.

Positive control: HeLa cell lysate, HeLa treated with 1 μ M staurosporine for 4 hours cell lysate, HeLa treated with 3 μ M staurosporine for 4 hours cell lysate, C2C12 cell lysate, Jurkat cell lysate.

Subcellular location: Apoptosome, cytosol, Mitochondrion, nucleus, cytoplasm, protein-containing complex.

Database links: SwissProt: P55211 Human | Q8C3Q9 Mouse

Recommended Dilutions:

| | |
|-----------|--|
| WB | 1:500-1:2,000 |
| IP | Use at an assay dependent concentration. |

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C or -80 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

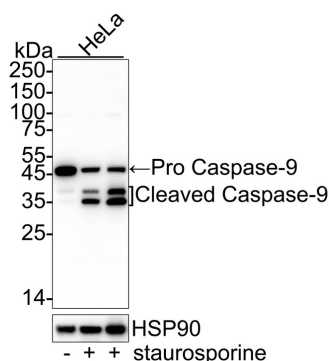


Fig1: Western blot analysis of Active+Pro Caspase-9 on different lysates with Rabbit anti-Active+Pro Caspase-9 antibody (HA750238) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 1 μ M staurosporine for 4 hours cell lysate

Lane 3: HeLa treated with 3 μ M staurosporine for 4 hours cell lysate

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 46 kDa

Observed band size: 46/37/35 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

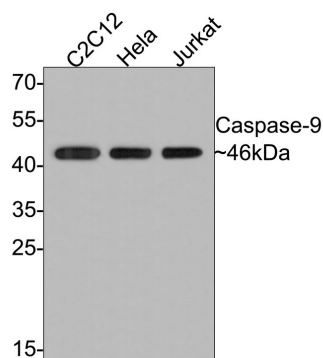
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750238) at 1/1,000 dilution was used in 5% NFDM/TBST at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Active+Pro Caspase-9 on different lysates with Rabbit anti-Active+Pro Caspase-9 antibody (HA750238) at 1/1,000 dilution.

Lane 1: C2C12 cell lysate

Lane 2: HeLa cell lysate

Lane 3: Jurkat cell lysate



Lysates/proteins at 10 μ g/Lane.

Predicted band size: 46 kDa

Observed band size: 46 kDa

Exposure time: 2 minutes;

12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750238) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

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Fig3: Western blot analysis of Caspase-9 on different lysates with Rabbit anti-Caspase-9 antibody (HA750238) at 1/1,000 dilution.

Lane 1: Hela-si NT cell lysate

Lane 2: Hela-si Caspase-9 cell lysate

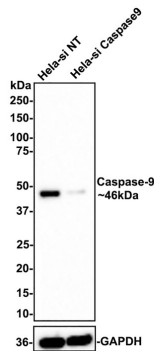
Lysates/proteins at 10 µg/Lane.

Predicted band size: 46 kDa

Observed band size: 46 kDa

Exposure time: 2 minutes;

4-20% SDS-PAGE gel.



ET1610-95 was shown to specifically react with Caspase-9 in Hela-si NT cells. Weakened band was observed when Hela-si Caspase-9 sample was tested. Hela-si NT and Hela-si Caspase-9 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1610-95, 1/1,000) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Arango-Gonzalez B et al. Identification of a common non-apoptotic cell death mechanism in hereditary retinal degeneration. *PLoS One* 9:e112142 (2014).
2. Schattenberg JM et al. Increased hepatic fibrosis and JNK2-dependent liver injury in mice exhibiting hepatocyte-specific deletion of cFLIP. *Am J Physiol Gastrointest Liver Physiol* 303:G498-506 (2012).

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