

Anti-Caspase-9 Antibody [SC65-05]

ET1610-95



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IP
Molecular Wt:	Predicted band size: 46/30/17/37 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: C2C12 cell lysate, Hela 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*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou HuaAn Biotechnology Co.,Ltd.

Orders: 0086-571-88062880

Technical:0086-571-89986345

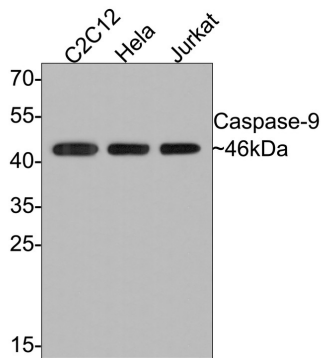
Service mail: support@huabio.cn

www.huabio.cn



Fig1: Western blot analysis of Caspase-9 on different lysates with Rabbit anti-Caspase-9 antibody (ET1610-95) at 1/1,000 dilution.

Lane 1: C2C12 cell lysate
 Lane 2: HeLa cell lysate
 Lane 3: Jurkat cell lysate



Lysates/proteins at 10 µg/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% NFDN/TBST for 1 hour at room temperature. The primary antibody (ET1610-95) at 1/1,000 dilution was used in 5% NFDN/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.

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).