Anti-Active+Pro Caspase-9 Antibody

R1308-12

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 46 kDa

Description: Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family. It is known to be involved in the activation cascade of caspases responsible for apoptosis execution. Upon apoptotic stimulation, cytochrome c released from mitochondria associates with the 47 kDa procaspase-9/Apaf 1. Apaf-1 mediated activation of caspase-9 involves instrinsic proteolytic processing resulting in cleavage at Asp315 and producing a p35 subunit. Another cleavage occurs at Asp330 producing a p37 subunit that can serve to amplify the apoptotic response. Cleaved caspase-9 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, which leads to apoptosis.

Immunogen: Synthetic peptide within human Caspase-9 aa 299-313/416.

Positive control: Hela cell lysate, human lung carcinoma tissue.

Subcellular location: Cytoplasm.

Database links: SwissProt: P55211 Human

Recommended Dilutions:

WB	1:1,000- 1:2,000
IHC-P	1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Immunogen affinity purified.

Images

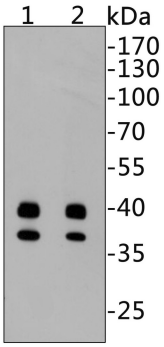

Fig1: Western blot analysis on Hela cell lysates using anti-Caspase-9 rabbit polyclonal antibodies with Dilution at 1/500 (1) and 1/1,000 (2).

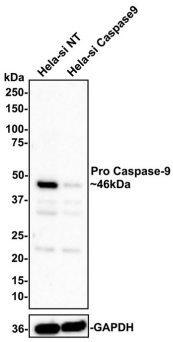

Fig2: Western blot analysis of Active+Pro Caspase-9 on different lysates with Rabbit anti-Active+Pro Caspase-9 antibody (R1308-12) at 1/1,000 dilution.

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: 5 minutes;

4-20% SDS-PAGE gel.

R1308-12 was shown to specifically react with Active+Pro Caspase-9 in Hela-si NT cells. Weakened band was observed when Hela-si Active+Pro Caspase-9 sample was tested. Hela-si NT and Hela-si Active+Pro 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 (R1308-12, 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.

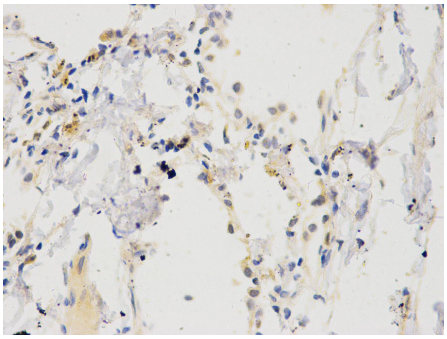

Fig3: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using anti-Caspase-9 rabbit polyclonal antibody.

Background References

1. "c-Abl tyrosine kinase regulates caspase-9 autocleavage in the apoptotic response to DNA damage." Raina D., Pandey P., Ahmad R., Bharti A., Ren J., Kharbanda S., Weichselbaum R., Kufe D. J. Biol. Chem. 280:11147-11151(2005)
2. "Identification of an endogenous dominant-negative short isoform of caspase-9 that can regulate apoptosis." Srinivasula S.M., Ahmad M., Guo Y., Zhan Y., Lazebnik Y., Fernandes-Alnemri T., Alnemri E.S.Cancer Res. 59:999-1002(1999)