

Product Name: KD-Validated cleaved Caspase-9 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01323

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 46.3kDa

Antigen Information

Gene Name	CASP9 CASP9; Caspase 9; ICE-LAP6; APAF-3; MCH6; PPP1R56; Caspase 9, Apoptosis-Related Cysteine Peptidase; Protein Phosphatase 1, Regulatory Subunit 56; ICE-Like Apoptotic
Alternative Names	Protease 6; Caspase-9; Caspase 9, Apoptosis-Related Cysteine Protease; Apoptotic Protease Activating Factor 3; Apoptotic Protease-Activating Factor 3; Apoptotic Protease MCH-6; Apoptotic Protease Mch-6; EC 3.4.22.62; CASP-9; APAF3
Gene ID	842.0
SwissProt ID	P55211
Immunogen	A synthesized peptide derived from human CASP9

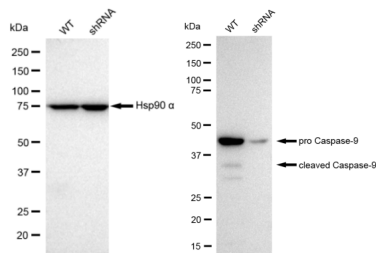
Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

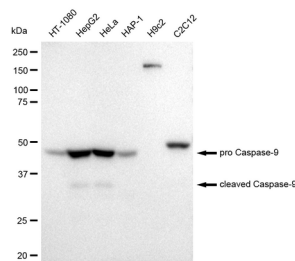
Research Area

Cell Biology,Cancer,Metabolism,Neuroscience

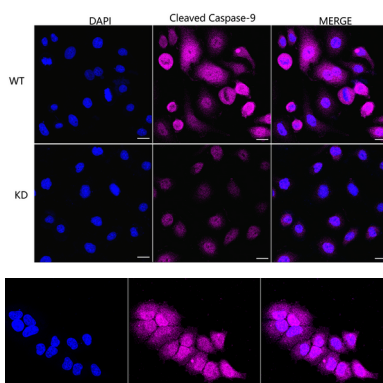
Image Data



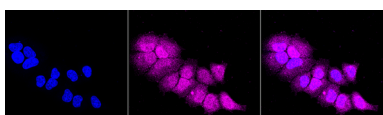
Western blotting analysis using cleaved Caspase-9 antibody (KVA01323). Cleaved Caspase-9 expression in wild type (WT) and cleaved Caspase-9 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cleaved Caspase-9 antibody (KVA01323, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



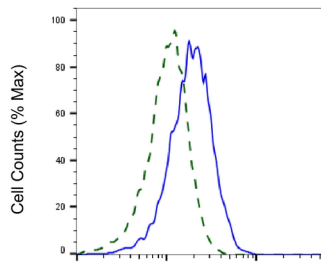
Western blotting analysis using cleaved Caspase-9 antibody (KVA01323). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cleaved Caspase-9 antibody (KVA01323, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Cleaved Caspase-9 antibody (KVA01323, 1:1,000). Top panel: wild-type (WT); Bottom panel: Cleaved Caspase-9 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cleaved Caspase-9 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

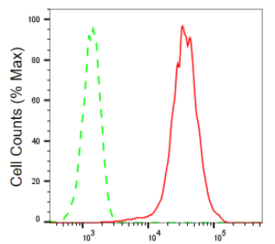


Immunocytochemical staining of HepG2 cells with cleaved Caspase-9 antibody (KVA01323, 1:1,000). Nuclei were stained blue with DAPI; cleaved Caspase-9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



cleaved Caspase-9-Alexa Fluor® 647

Validation of cleaved Caspase-9 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with cleaved Caspase-9 antibody (KVA01323, 1:2,000) and analyzed using BD flow cytometer.



cleaved Caspase-9-Alexa Fluor® 647

Flow cytometric analysis of cleaved Caspase-9 expression in HepG2 cells using cleaved Caspase-9 antibody (KVA01323, 1:2,000). Green, isotype control; red, cleaved Caspase-9.