[KD Validated] Anti-CASP9 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021397

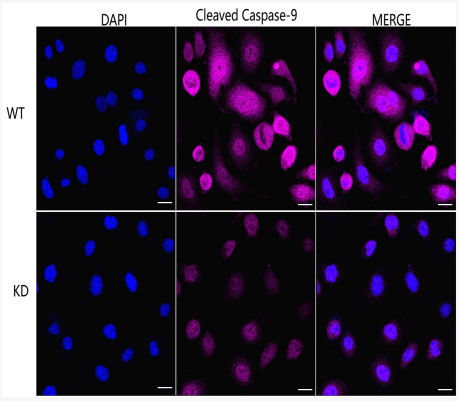
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,500; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	87M79T98
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CASP9
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-CASP9 Rabbit mAb [87M79T98] is for research use only and not for use in diagnostic or therapeutic procedures.

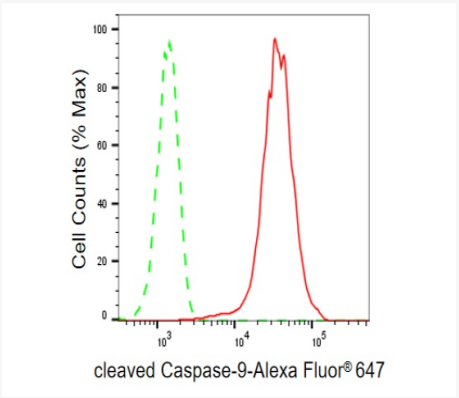
Protein Information

Synonyms	CASP9; Caspase 9; ICE-LAP6; APAF-3; MCH6; PPP1R56; Caspase 9, Apoptosis-Related Cysteine Peptidase; Protein Phosphatase 1, Regulatory Subunit 56; ICE-Like Apoptotic 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.
Calculated MW	Calculated MW: 35,46 kDa, Observed MW: 35,46 kDa
Uniprot ID	P55211
Gene ID	842
Background	Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family. 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.

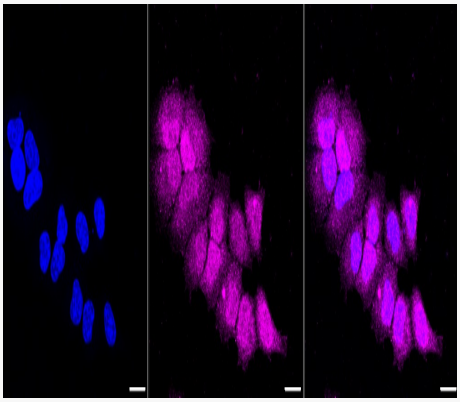
Validation Images



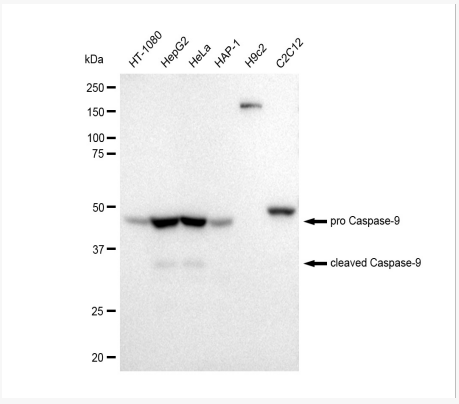
Immunocytochemical staining of HeLa cells using Cleaved Caspase-9 antibody (R021397, 1:1,000), Top panel: wild-type (WT); Bottom panal: Cleaved Caspase-9 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cleaved Caspase-9 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



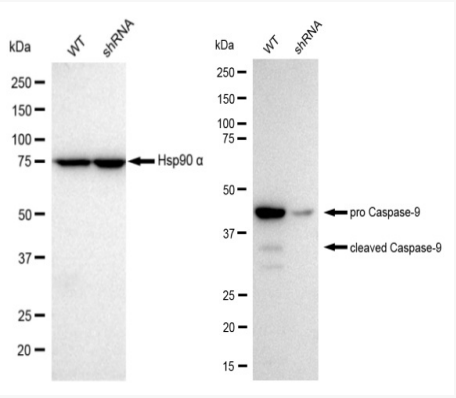
Flow cytometric analysis of cleaved Caspase-9 expression in HepG2 cells using cleaved Caspase-9 antibody (R021397, 1:2,000). Green, isotype control; red, cleaved Caspase-9.



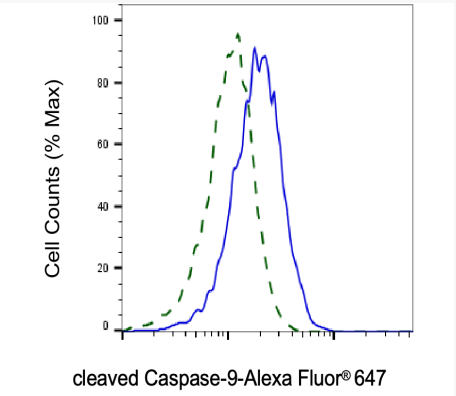
Immunocytochemical staining of HepG2 cells with cleaved Caspase-9 antibody (R021397, 1:1,000). Nuclei were stained blue with DAPI; cleaved Caspase-9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Western blotting analysis using cleaved Caspase-9 antibody (R021397). 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 (R021397, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:50,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using cleaved Caspase-9 antibody (R021397). 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 (R021397, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:50,000) respectively. Image was developed using ECL Substrate Kit.



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 (R021397, 1:2,000) and analyzed using BD flow cytometer.