[KD Validated] Anti-CASP9 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021321

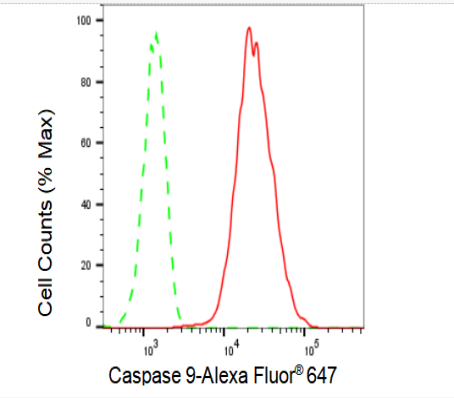
Product Information

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.	87O85S28
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Caspase-9
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 [87O85S28] is for research use only and not for use in diagnostic or therapeutic procedures.

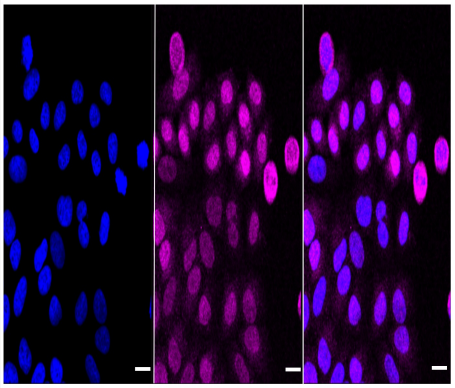
Protein Information

Synonyms	CASP9; Caspase 9; Apoptosis-Related Cysteine Peptidase; Regulatory Subunit 56; Apoptotic Protease Mch-6; PPP1R56; APAF-3; Apoptotic Protease Activating Factor 3; ICE-LAP6; caspase-9; MCH6; Protein Phosphatase 1; Regulatory Subunit 56; ICE-Like Apoptotic Protease 6; CASP-9; APAF3; EC 3.4.22.62; Caspase 9; Apoptosis-Related Cysteine Protease; Apoptotic Protease-Activating Factor 3; Protein Phosphatase 1.
Calculated MW	Calculated MW: 46 kDa, Observed MW: 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.

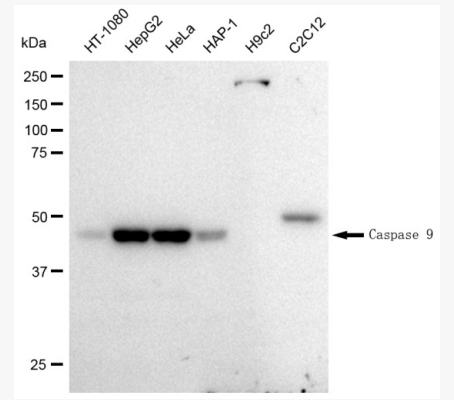
Validation Images



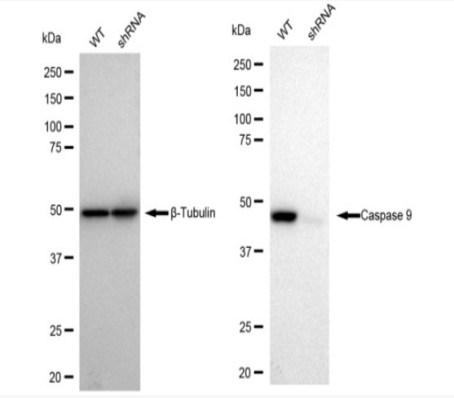
Flow cytometric analysis of Caspase 9 expression in HepG2 cells using Caspase 9 antibody (R021321, 1:2,000). Green, isotype control; red, Caspase 9.



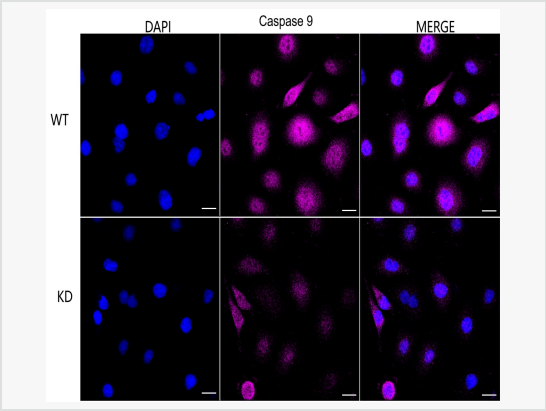
Immunocytochemical staining of HepG2 cells with caspase 9 antibody (R021321, 1:1,000). Nuclei were stained blue with DAPI; Caspase 9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: medium. Scale bar: 20 µm.



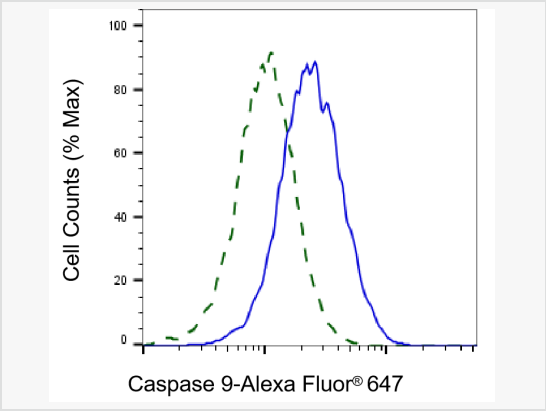
Western blotting analysis using Caspase 9 antibody (R021321). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Caspase 9 antibody (R021321, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (1:50,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Caspase 9 antibody (R021321). Caspase 9 expression in wild type (WT) and Caspase 9 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Caspase 9 antibody (R021321, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of HeLa cells using Caspase 9 antibody (R021321, 1:1,000), Top panel: wild-type (WT); Bottom panal: Caspase 9 shRNA knockdown (KD). Nuclei were stained blue with DAPI;Caspase 9 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Validation of Caspase 9 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Caspase 9 antibody (R021321, 1:2,000) and analyzed using BD flow cytometer.