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KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1437

Specification

KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P55211
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted , 46 kDa , observed , 46 kDa KDa**
Gene Name	**CASP9**
Aliases	**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**
Immunogen	**Recombinant protein of human Caspase-9**

KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**842**

Other Names
Caspase-9, CASP-9, 3.4.22.62, Apoptotic protease Mch-6, Apoptotic protease-activating factor 3, APAF-3, ICE-like apoptotic protease 6, ICE-LAP6, Caspase-9 subunit p35, Caspase-9 subunit p10, CASP9, MCH6

KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody - Protein Information

Name CASP9

Synonyms MCH6

Function
Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates effector caspases caspase-3 (CASP3) or caspase-7 (CASP7). Promotes DNA damage- induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Cleaves BIRC6 following inhibition of BIRC6-caspase binding by DIABLO/SMAC (PubMed:36758105, PubMed:<a

href="http://www.uniprot.org/citations/36758106" target="_blank">36758106).

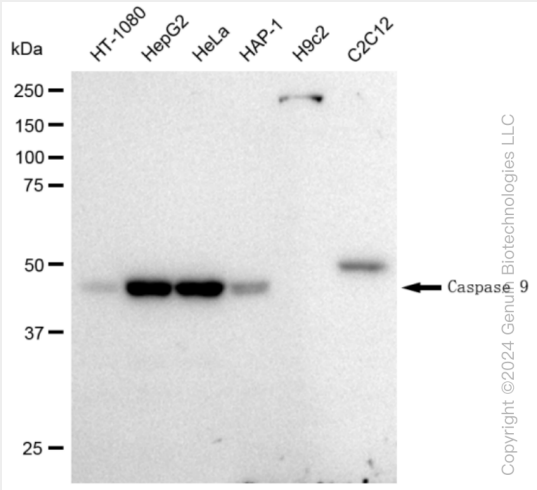
Tissue Location
Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody - Protocols

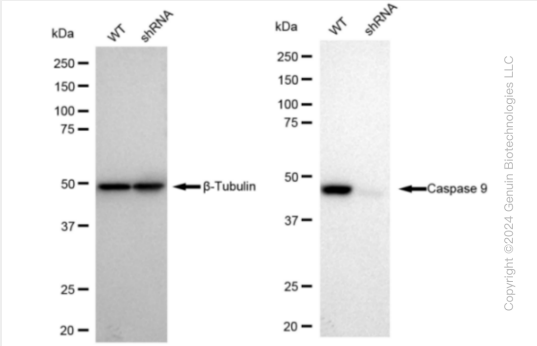
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Caspase 9 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Caspase 9 antibody (Cat#AGI1437). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Caspase 9 antibody (Cat#AGI1437, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Caspase 9 antibody (Cat#AGI1437). Caspase 9 expression in

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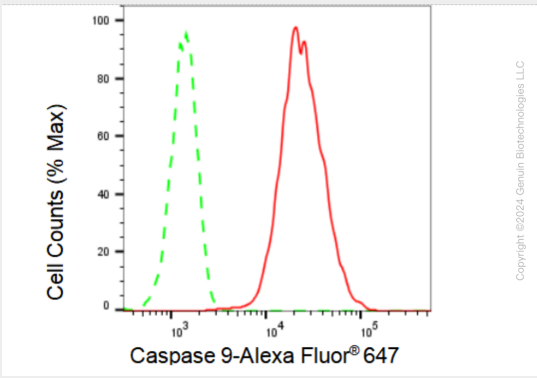
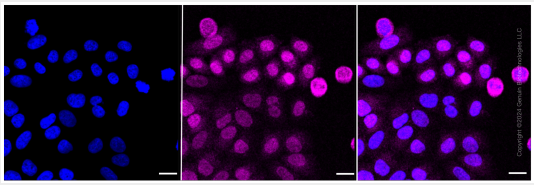
wild type (WT) and Caspase 9 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Caspase 9 antibody (Cat#AGI1437, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Caspase 9 expression in HepG2 cells using Caspase 9 antibody (Cat#AGI1437, 1:2,000). Green, isotype control; red, Caspase 9.



Immunocytochemical staining of HepG2 cells with caspase 9 antibody (Cat#AGI1437, 1:1000). 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.