

Caspase-9 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52819

Product Information

Application	WB
Primary Accession	P55211
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	46281

Additional Information

Gene ID	842
Other Names	APAF 3;APAF-3;APAF3;Apoptosis related cysteine peptidase;Apoptotic protease activating factor 3;Apoptotic protease Mch 6;Apoptotic protease Mch-6;Apoptotic protease-activating factor 3;CASP 9;CASP-9;CASP9;CASP9_HUMAN;Caspase 9 apoptosis related cysteine peptidase;Caspase 9 Dominant Negative;Caspase 9c;Caspase-9;Caspase-9 subunit p10;Caspase9;ICE LAP6;ICE like apoptotic protease 6;ICE-LAP6;ICE-like apoptotic protease 6;MCH6;PPP1R56;protein phosphatase 1, regulatory subunit 56;RNCASP9
Dilution	WB~~1:1000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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: 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.

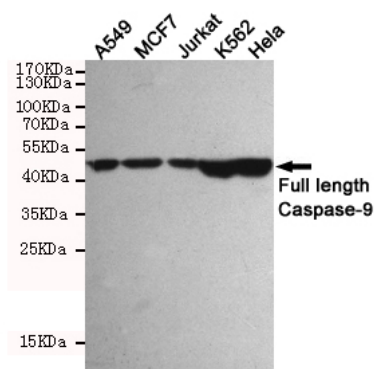
Background

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 caspase-3. Promotes DNA damage-induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP).

References

Duan H., et al. J. Biol. Chem. 271:16720-16724(1996).
Srinivasula S.M., et al. J. Biol. Chem. 271:27099-27106(1996).
Hadano S., et al. Mamm. Genome 10:757-760(1999).
Srinivasula S.M., et al. Cancer Res. 59:999-1002(1999).
Izawa M., et al. Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of Caspase-9 in A549, MCF7, Jurkat, K562 and HeLa cell lysates using Caspase-9 mouse mAb (1:1000 diluted). Predicted band size: 49/37 kDa. Observed band size: 49 kDa.

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