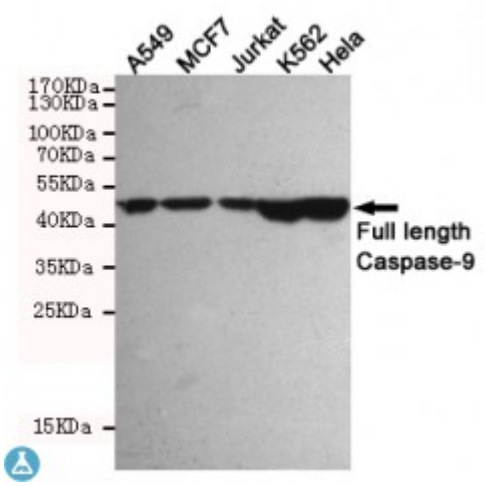
Anti-Caspase-9 antibody



Description	Mouse monoclonal to Caspase-9.

Model	STJ99219
Host	Mouse
Reactivity	Human
Applications	ELISA, WB
Immunogen	Purified recombinant human Caspase-9 protein fragments expressed in E.coli.
Gene ID	842
Gene Symbol	CASP9
Dilution range	WB 1:500-2000ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of Caspase-9 and does not cross-react with related proteins.
Tissue Specificity	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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	1D1-F2-E9
Note	For Research Use Only (RUO).
Protein Name	Caspase-9 CASP-9 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

Molecular Weight	49/37kDa
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1511OMIM:602234
Alternative Names	Caspase-9 CASP-9 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
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 caspase-3. Promotes DNA damage-induced apoptosis in a ABL1/c-Abl-dependent manner. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP).; Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9.
Post-translational Modifications	Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events.; Phosphorylated at Thr-125 by MAPK1/ERK2. Phosphorylation at Thr-125 is sufficient to block caspase-9 processing and subsequent caspase-3 activation. Phosphorylation on Tyr-153 by ABL1/c-Abl; occurs in the response of cells to DNA damage.