Anti-Caspase 9 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016225

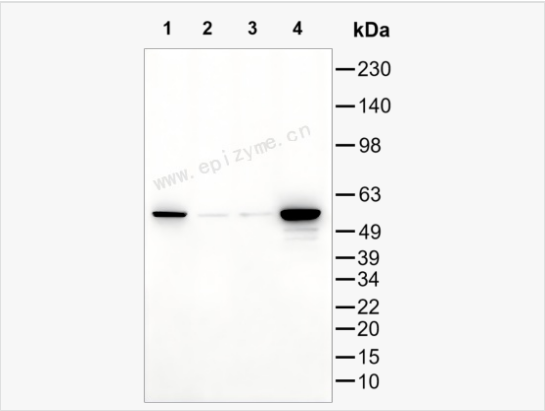
Product Information

Application	WB, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	31P04R06
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein corresponding to 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 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Caspase 9 Mouse mAb [31P04R06] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	MCH6; CASP9; Caspase-9; CASP-9; Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; ICE-like apoptotic protease 6; APAF-3; ICE-LAP6.
Calculated MW	Calculated MW: 46 kDa; Observed MW: 53 kDa
Uniprot ID	P55211
Gene ID	842
Background	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]
Cellular Location	Cytoplasm, cytosol. Mitochondrion. Nucleus. Apoptosome.
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.

Validation Images



Western Blot - Anti-Caspase 9 Mouse mAb [31P04R06]
All lanes: M016225 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 46 kDa
Observed band size: 53 kDa
Developed using the ECL technique (Cat. No. SQ201).