Anti-Caspase 1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016264

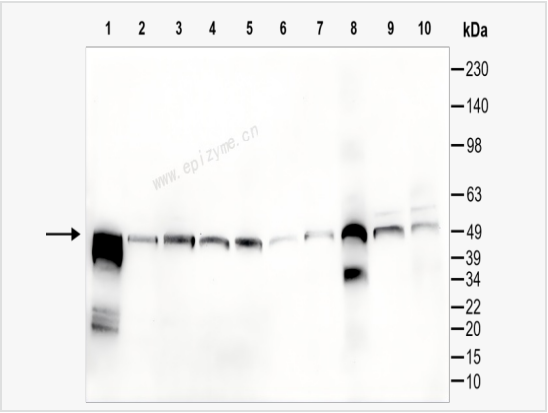
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	88J80A65
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein corresponding to Human Caspase-1
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 1 Mouse mAb [88J80A65] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	IL1BC; IL1BCE; CASP1; Caspase-1; CASP-1; Interleukin-1 beta convertase; Interleukin-1 beta-converting enzyme; p45; IL-1BC; ICE; IL-1 beta-converting enzyme.
Calculated MW	Calculated MW: 45 kDa; Observed MW: 45~50 kDa
Uniprot ID	P29466
Gene ID	834
Background	This gene encodes a protein which is 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 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]
Cellular Location	Cytoplasm. Cell membrane.
Tissue Location	Expressed in larger amounts in spleen and lung. Detected in liver, heart, small intestine, colon, thymus, prostate, skeletal muscle, peripheral blood leukocytes, kidney and testis. No expression in the brain.

Validation Images



Western Blot - Anti-Caspase 1 Mouse mAb [88J80A65]
All lanes: M016264 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
Lane 5: 293T (Human embryonic kidney cell) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: Mouse skin whole tissue lysates
Lane 8: Mouse muscle whole tissue lysates
Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 10: Rat skin whole tissue lysates
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Lysates/proteins at 10 µg per lane.
Predicted band size: 45 kDa
Observed band size: 45~50 kDa
Developed using the ECL technique (Cat. No. SQ201).