Anti-Smad3 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M016251

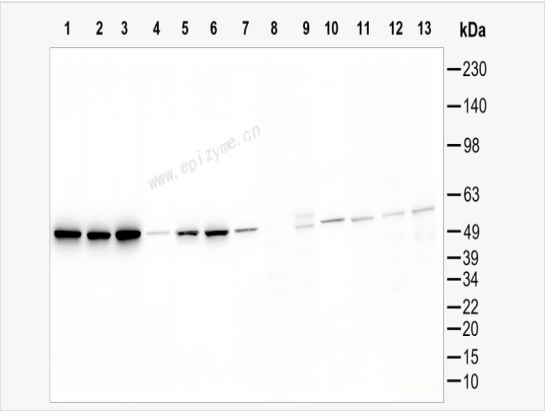
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	58A72T10
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant full length protein corresponding to Human Smad3
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-Smad3 Mouse mAb [58A72T10] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Mothers against decapentaplegic homolog 3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3; MADH3; SMAD3.
Calculated MW	Calculated MW: 48 kDa; Observed MW: 48, 49 kDa
Uniprot ID	P84022
Gene ID	4088
Background	The SMAD family of proteins are a group of intracellular signal transducer proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. The SMAD3 protein functions in the transforming growth factor-beta signaling pathway, and transmits signals from the cell surface to the nucleus, regulating gene activity and cell proliferation. This protein forms a complex with other SMAD proteins and binds DNA, functioning both as a transcription factor and tumor suppressor. Mutations in this gene are associated with aneurysms-osteoarthritis syndrome and Loeys-Dietz Syndrome 3. [provided by RefSeq, May 2022]
Cellular Location	Cytoplasm; Nucleus

Validation Images



Western Blot - Anti-Smad3 Mouse mAb [58A72T10]
All lanes: M016251 at 1:2,000 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 brain whole tissue lysates
Lane 8: Mouse heart whole tissue lysates
Lane 9: Mouse liver whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 11: Rat brain whole tissue lysates
Lane 12: Rat heart whole tissue lysates
Lane 13: Rat liver 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: 48 kDa
Observed band size: 48,49 kDa
Developed using the ECL technique (Cat. No. SQ201).