Anti-Smad2/3 Mouse mAb

Purified Mouse Monoclonal Antibody

Catalog # M012855

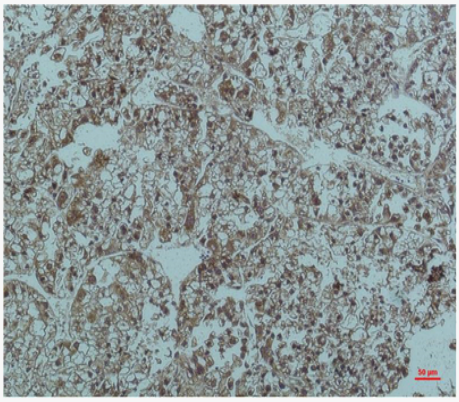
Product Information

Application	IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Human, Rat, Mouse (Cell)
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:100
Host	Mouse
Clonality	Monoclonal
Clone No.	82L23L50
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant Protein of Smad3
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
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-Smad2/3 antibody [82L23L50] is for research use only and not for use in diagnostic or therapeutic procedures.

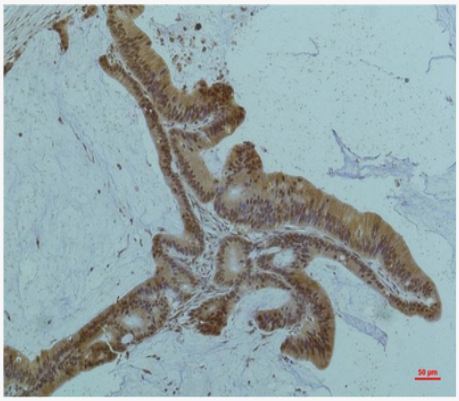
Protein Information

Synonyms	SMAD3, MADH3, 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.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52,60 kDa
Uniprot ID	P84022, Q15796
Gene ID	4087/4088
Background	Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF-β signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), which include Smad1, 2, 3, 5, and 8; the common-mediator Smad (co-Smad), Smad4; and the antagonistic or inhibitory Smads (I-Smads), Smad6 and 7 . Activated type I receptors associate with specific R-Smads and phosphorylate them on a conserved carboxy terminal SSXS motif. The phosphorylated R-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses .

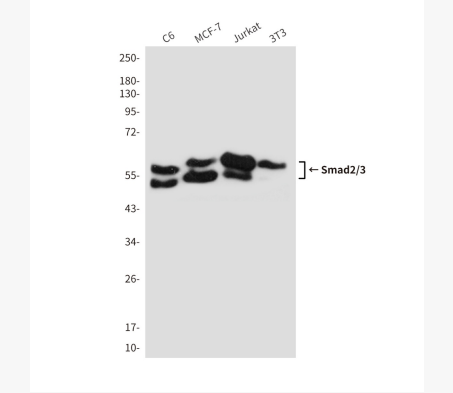
Validation Images



Immunohistochemistry analysis of paraffin-embedded Human Live rTissue using Smad2/3 antibody [82L23L50]. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human tonsils using Smad2/3 antibody [82L23L50]. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of Smad2/3 in C6, MCF-7, Jurkat and 3T3 lysates using Smad2/3 antibody [82L23L50].