Product Name: SMAD5 Mouse Monoclonal Antibody
Catalog #: AMM80936

Summary

Production Name	SMAD5 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	SMAD5
Alternative Names	Dwfc; JV5-1; MADH5; DKFZp781C1895; DKFZp781O1323; SMAD5
Gene ID	4090.0
SwissProt ID	Q99717.Purified recombinant fragment of human SMAD5 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	52kDa

Background

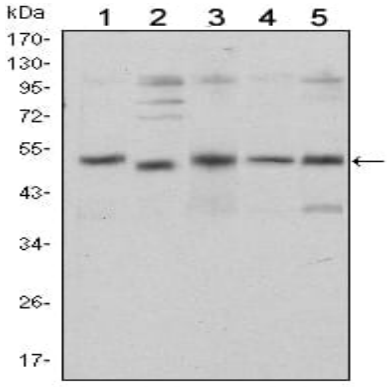
Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-

regulated SMAD (R-SMAD). SMAD5 is required for normal development of the cardiovascular system in vivo; lack of the SMAD5 gene results in apoptosis of cardiac myocytes. 3 Upregulation of SMAD5 has been reported to mediate apoptosis of gastric epithelial cells induced by Helicobacter pylori infection. Tissue specificity: Ubiquitous.

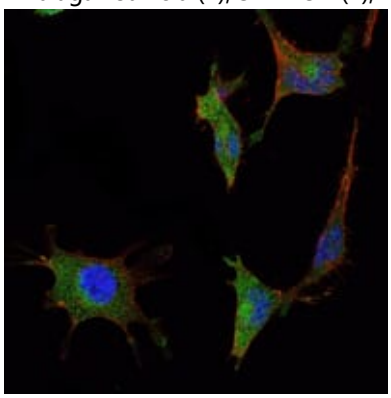
Research Area

TGF-beta signaling pathway

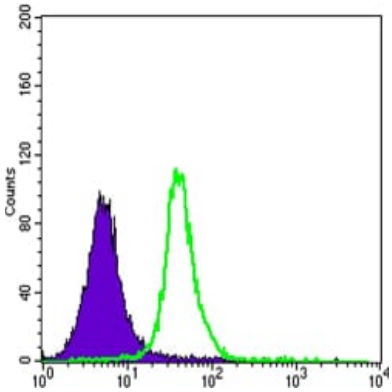
Image Data



Western blot analysis using SMAD5 mouse mAb against Hela (1), SK-N-SH (2), PC-12 (3), Jurkat (4), and K562 (5) cell lysate.



Immunofluorescence analysis of NTERA-2 cells using SMAD5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



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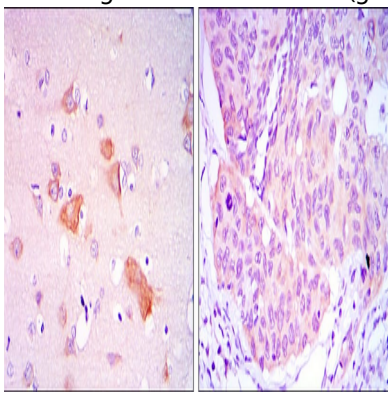
Flow cytometric analysis of Jurkat cells using SMAD5 mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human brain tissues (left) and lung cancer tissues (right) using SMAD5 mouse mAb with DAB staining.

Note

For research use only.