

SMAD4 antibody

Product Information

Catalog No.:	FNab07996
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

In muscle physiology, plays a central role in the balance between atrophy and hypertrophy. When recruited by MSTN, promotes atrophy response via phosphorylated SMAD2/4. MSTN decrease causes SMAD4 release and subsequent recruitment by the BMP pathway to promote hypertrophy via phosphorylated SMAD1/5/8. Acts synergistically with SMAD1 and YY1 in bone morphogenetic protein(BMP)-mediated cardiac-specific gene expression. Binds to SMAD binding elements(SBEs)(5'-GTCT/AGAC-3') within BMP response element(BMPRE) of cardiac activating regions(By similarity). Common SMAD(co-SMAD) is the coactivator and mediator of signal transduction by TGF-beta(transforming growth factor). Component of the heterotrimeric SMAD2/SMAD3-SMAD4 complex that forms in the nucleus and is required for the TGF-mediated signaling. Promotes binding of the SMAD2/SMAD4/FAST-1 complex to DNA and provides an activation function required for SMAD1 or SMAD2 to stimulate transcription. Component of the multimeric SMAD3/SMAD4/JUN/FOS complex which forms at the AP1 promoter site; required for synergistic transcriptional activity in response to TGF-beta. May act as a tumor suppressor. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

Immunogen information

Immunogen:	SMAD family member 4
Synonyms:	Mothers against decapentaplegic homolog 4 (MAD homolog 4, Mothers against DPP homolog 4) Deletion target in pancreatic carcinoma 4 SMAD family member 4 (SMAD 4, Smad4, hSMAD4) SMAD4 DPC4 MADH4

Observed MW: 60 kDa
Uniprot ID : Q13485

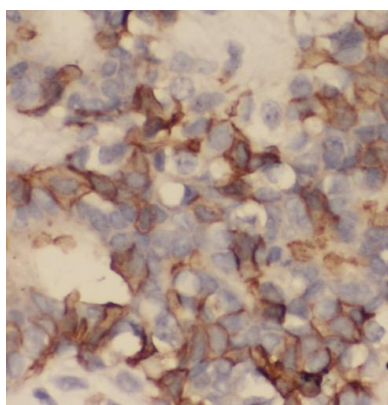
Application

Reactivity: Human, Mouse

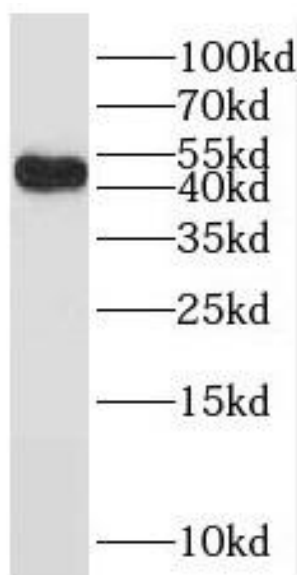
Tested Application: ELISA, WB, IHC, IF

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200; IF: 1:20-1:200

Image:



Immunohistochemical of paraffin-embedded human breast cancer using FNab07996(SMAD4 antibody) at dilution of 1:100



HEK-293 cells were subjected to SDS PAGE followed by western blot with FNab07996(SMAD4 antibody) at dilution of 1:600