

Basic Information

Product Name	Anti-SMAD4 Antibody
Gene Name	SMAD4
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Smad4 identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	60 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

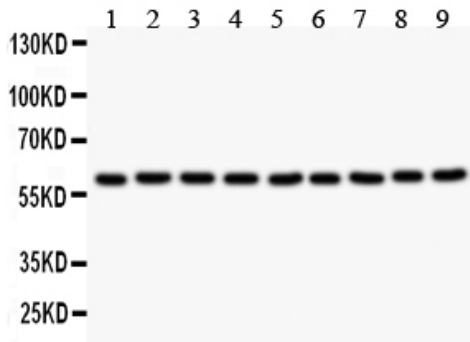
Background Information

SMAD4 (Mothers Against Decapentaplegic Drosophila Homolog of 4), also known as MADH4 or DPC4, is a protein that in humans is encoded by the SMAD4 gene. It belongs to the Darwin family of proteins that modulate members of the TGF β protein superfamily. Hahn et al. (1996) identified the SMAD4 gene on chromosome 18q21.1. Howe et al. (1998) identified the SMAD4 gene within a region on 18q21.1 defined by linkage analysis in kindred with juvenile polyposis syndrome. To test directly the hypothesis that the SMAD4 gene is a tumor suppressor that is critical for transmitting signals from transforming growth factor-beta and related ligands. SMAD4 plays a pivotal role in signal transduction of the transforming growth factor beta superfamily cytokines by mediating transcriptional activation of target genes.

Reference

Anti-SMAD4 Antibody被引用在4文献中。

Selected Validation Data



Western blot analysis of SMAD4 using anti-SMAD4 antibody (PB0446). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat Brain tissue lysates,

Lane 2: Mouse Brain tissue lysates,

Lane 3: Rat Skeletal Muscle tissue lysates,

Lane 4: Mouse Skeletal Muscle tissue lysates,

Lane 5: U87 whole cell lysates,

Lane 6: Human Placenta tissue lysates,

Lane 7: HT1080 whole cell lysates,

Lane 8: HELA whole cell lysates,

Lane 9: NEURO whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SMAD4 antigen affinity purified polyclonal antibody (PB0446) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SMAD4 at approximately 60 kDa. The expected band size for SMAD4 is at 60 kDa.