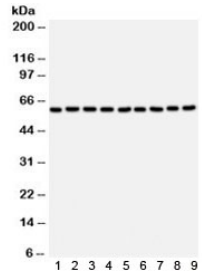
SMAD4 Antibody (R32216)

Catalog No.	Formulation	Size
R32216	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q13485
Applications	Western blot: 0.1-0.5ug/ml
Limitations	This SMAD4 antibody is available for research use only.



Western blot testing of 1) rat brain, 2) mouse brain, 3) rat skeletal muscle, 4) mouse skeletal muscle, human 5) U87, 6) placenta, 7) HT1080, 8) HeLa and 9) NEURO lysate with SMAD4 antibody. Expected/observed molecular weight ~60 kDa.

Description

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 Darfwin family of proteins that modulate members of the TGFb 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.

Application Notes

Optimal dilution of the SMAD4 antibody should be determined by the researcher.

Immunogen

Amino acids EIHLHRALQLLDEVLHTMPIADPQPLD of human SMAD4 were used as the immunogen for the SMAD4 antibody.

Storage

After reconstitution, the SMAD4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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