Product datasheet

Anti-SMAD4 Antibody (Clone#FH-19)

Catalog Number: *BM3920*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-SMAD4 Antibody (Clone#FH-19)
Gene Name	SMAD4
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Smad4
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	60 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200

Storage

12 months from date of receipt，-20℃ 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 Darfwin family of proteins that modulate members of the TGFβ 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.

Selected Validation Data

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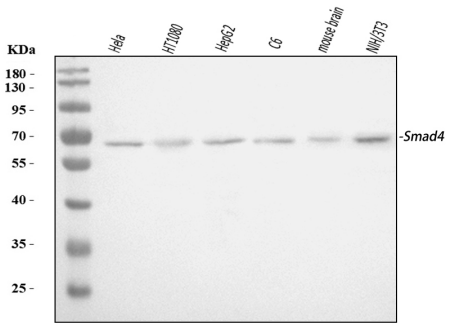
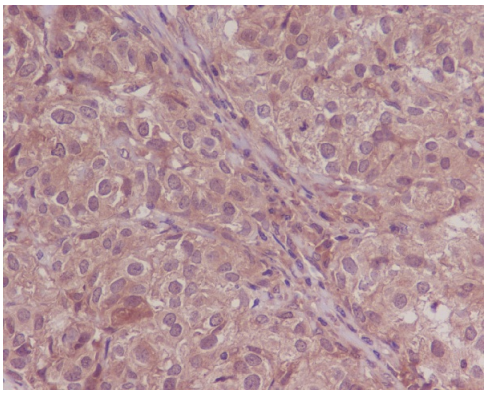


Western blot analysis of anti- SMAD4 antibody (BM3920). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: HELA whole cell lysates,
Lane 2: HT1080 whole cell lysates,
Lane 3:HepG2 whole cell lysates,
Lane 4: C6 whole cell lysates,
Lane 5: mouse brain tissue lysates,
Lane 6: NIH3T3 whole cell lysates.
Use rabbit anti- SMAD4 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for SMAD4 at approximately 65KD. The expected band size for SMAD4 is at 60KD.



IHC analysis using anti- SMAD4 antibody (BM3920). detected in paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-Rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.