

**Product Name: Phospho-Smad3(S425)(1D9)Mouse
Monoclonal Antibody
Catalog #: AMM06013**

Summary

Production Name	Phospho-Smad3(S425)(1D9)Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SMAD3 MADH3
Alternative Names	Mothers against decapentaplegic homolog 3 (MAD homolog 3;Mad3;Mothers against DPP homolog 3;hMAD-3;JV15-2;SMAD family member 3;SMAD 3;Smad3;hSMAD3)
Gene ID	4088.0
SwissProt ID	P84022.Synthetic Peptide of Phospho-Smad3(S425)

Application

Dilution Ratio	IHC 1:50-300.
Molecular Weight	52kD

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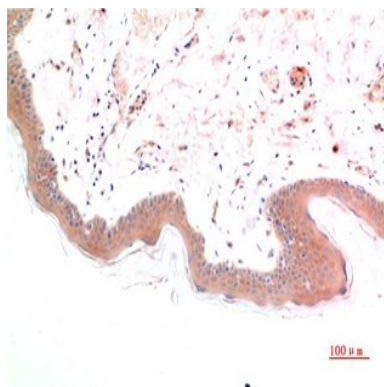
Background

The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the *Drosophila* gene 'mothers against decapentaplegic' (Mad) and the *C. elegans* gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by RefSeq, Apr 2009], disease: Defects in SMAD3 may be a cause of colorectal cancer (CRC) [MIM:114500], domain: The MH2 domain is sufficient to carry protein nuclear export., function: Transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinase. SMAD3 is a receptor-regulated SMAD (R-SMAD), PTM: Phosphorylated on serine by TGF-beta and activin type 1 receptor kinases., similarity: Belongs to the dwarfin/SMAD family., similarity: Contains 1 MH1 (MAD homology 1) domain., similarity: Contains 1 MH2 (MAD homology 2) domain., subcellular location: In the cytoplasm in the absence of ligand. Migration to the nucleus when complexed with Smad4., subunit: Interacts with HGS. Interacts with NEDD4L in response to TGF-beta. Interacts with TTRAP (By similarity). Interacts with SARA (SMAD anchor for receptor activation); form trimers with another SMAD3 and the co-SMAD SMAD4. Interacts with JUN/FOS, vitamin D receptor, homeobox protein TGIF and TGIF2, PEBP2-alpha C subunit, CREB-binding protein (CBP), p300, SKI, SNON, ATF2, SMURF2, AIP1, DACH1 and TGFB111. Part of a complex consisting of AIP1, ACVR2A, ACVR1B and SMAD3. Found in a complex with SMAD2 and TRIM33 upon addition of TGF-beta. Interacts with SMAD2 and TRIM33. Found in a complex with SMAD3, Ran and XPO4. Interacts with XPO4. Interacts with LBXCOR1 and CORL2.,

Research Area

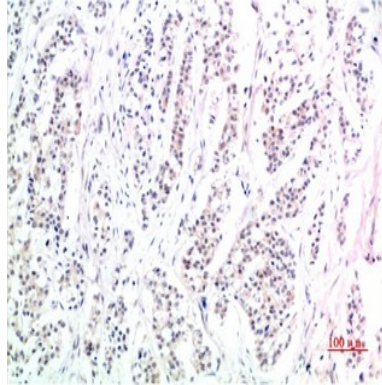
Cell_Cycle_G1S; Cell_Cycle_G2M_DNA; WNT; WNT-T CELL; TGF-beta; Adherens_Junction; Pathways in cancer; Colorectal cancer; Pancreatic cancer; Chronic myeloid leukemia;

Image Data



Immunohistochemical analysis of paraffin-embedded Human Skin Tissue using Phospho-Smad3 (S425) Mouse mAb diluted at 1:200

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Immunohistochemical analysis of paraffin-embedded Human Stomach Carcinoma Tissue using Phospho-Smad3 (S425)
Mouse mAb diluted at 1:200

Note

For research use only.