Product Name: Smad3 Rabbit Polyclonal Antibody

Catalog #: APRab17994



Summary

Smad3 Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IF-P,IF-F,ICC/IF,WB,IHC-P,ELISA

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated Modification Unmodified

Isotype lgG

Clonality Polyclonal Form Liquid

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

Storage

Gene Name SMAD3

SMAD3; MADH3; Mothers against decapentaplegic homolog 3; MAD homolog 3;

Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; **Alternative Names**

SMAD 3; Smad3; hSMAD3

Gene ID 4088.0

P84022. The antiserum was produced against synthesized peptide derived from human SwissProt ID

Smad3. AA range:145-194

Application

Dilution Ratio

IF-P/IF-F/ICC/IF 1:50-200, WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000.Not yet

tested in other applications.

Product Name: Smad3 Rabbit Polyclonal Antibody



Catalog #: APRab17994

Molecular Weight

50kDa

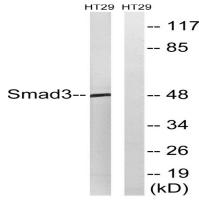
Background

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 TGFB1I1. 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-T CELLTGF-beta;Adherens_Junction;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;

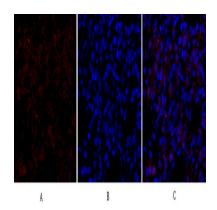
Image Data



Western blot analysis of lysates from HT-29 cells, using Smad3 Antibody. The lane on the right is blocked with the synthesized peptide.

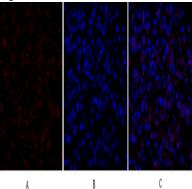
Product Name: Smad3 Rabbit Polyclonal Antibody Catalog #: APRab17994





Immunofluorescence analysis of rat-lung tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

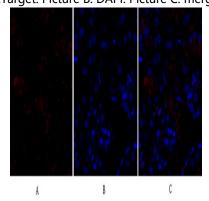




Immunofluorescence analysis of rat-lung tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .

2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

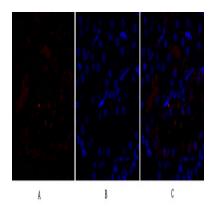
Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



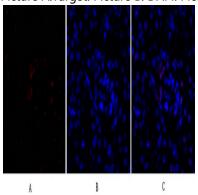
Immunofluorescence analysis of rat-kidney tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Product Name: Smad3 Rabbit Polyclonal Antibody Catalog #: APRab17994

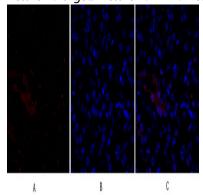




Immunofluorescence analysis of rat-kidney tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



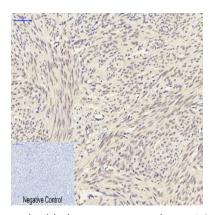
Immunofluorescence analysis of mouse-kidney tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



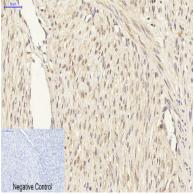
Immunofluorescence analysis of mouse-kidney tissue. 1,Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Product Name: Smad3 Rabbit Polyclonal Antibody Catalog #: APRab17994





Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,Smad3 Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,Smad3 Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

Note

For research use only.