

Smad3 (Phospho Ser213) Rabbit pAb

CatalogNo: YP1218

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA, IHC

MW

- 50kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho derived from human Smad3 (Phospho-Ser213)

Specificity This detects endogenous levels of Smad3 (Phospho-Ser213). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PMSPA

| Target Information

Gene name SMAD3 MADH3

Protein Name 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)

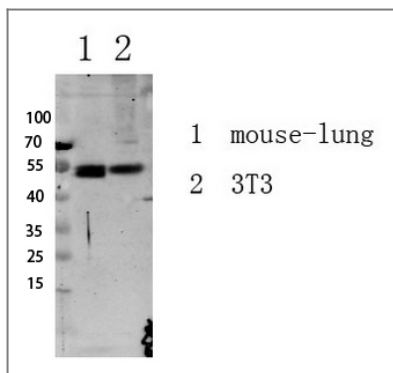
Organism	Gene ID	UniProt ID
Human	4088 ;	P84022 ;
Mouse	17127 ;	Q8BUN5 ;
Rat	25631 ;	P84025 ;

Cellular Localization Cytoplasm . Nucleus . Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation , migrates to the nucleus when complexed with SMAD4 (PubMed:15799969 , PubMed:21145499) . Through the action of the phosphatase PPM1A , released from the SMAD2/SMAD4 complex , and exported out of the nucleus by interaction with RANBP1 (PubMed:16751101 , PubMed:19289081) . Co-localizes with LEMD3 at the nucleus inner membrane (PubMed:15601644) . MAPK-mediated phosphorylation appears to have no effect on nuclear import (PubMed:19218245) . PDPK1 prevents its nuclear translocation in response to TGF-beta (PubMed:17327236) . Localized mainly to the nucleus in the early stages of embryo development with expression becoming evident in the cytoplasm of the inner cell mass at the blastocyst stage (By similarity) . .

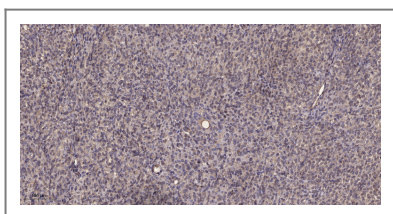
Tissue specificity Brain ,Colon carcinoma ,Esophagus tumor ,Pancreas ,Placenta ,Spleen ,Umbilical cord blood

Function 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 TGFB11. 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. ,

| Validation Data



Western blot analysis of various lysate, antibody was diluted at 1000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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