

产品名称: Smad3 Rabbit Polyclonal Antibody
产品货号: AP Rab17994



产品概述 (Summary)

产品名称 (Production Name)	Smad3 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SMAD3 SMAD3; MADH3; Mothers against decapentaplegic homolog 3; MAD
别名 (Alternative Names)	homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3
基因 ID (Gene ID)	4088.0
蛋白 ID (SwissProt ID)	P84022.The antiserum was produced against synthesized peptide derived from human Smad3. AA range:145-194

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	50kDa

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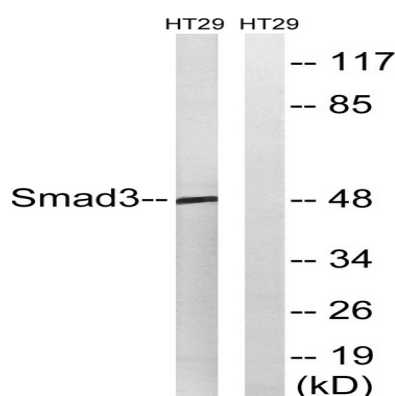
研究背景 (Background)

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,

研究领域 (Research Area)

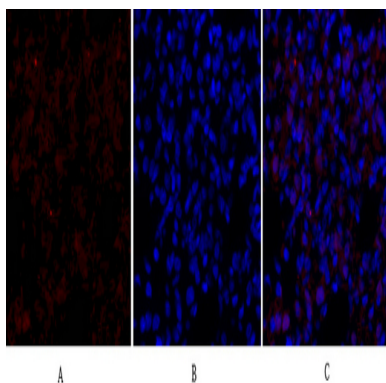
Cell_Cycle_G1S; Cell_Cycle_G2M_DNA; WNT; WNT-T CELL; TGF-beta; Adherens_Junction; Pathways in cancer; Colorectal cancer; Pancreatic cancer; Chronic myeloid leukemia;

图片 (Image Data)



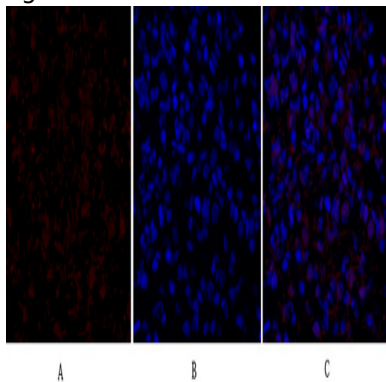
Western blot analysis of lysates from HT-29 cells, using Smad3 Antibody. The lane on the right is blocked with the synthesized peptide.

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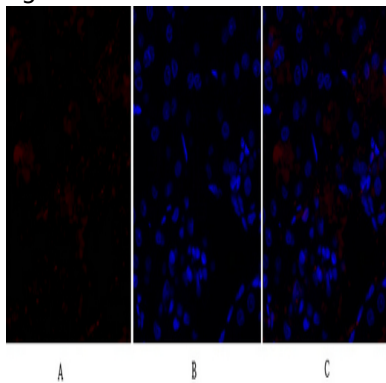
Immunofluorescence analysis of rat-lung tissue. 1, Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

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



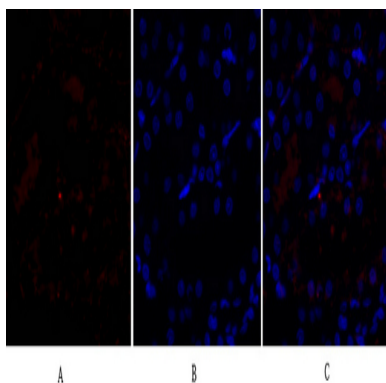
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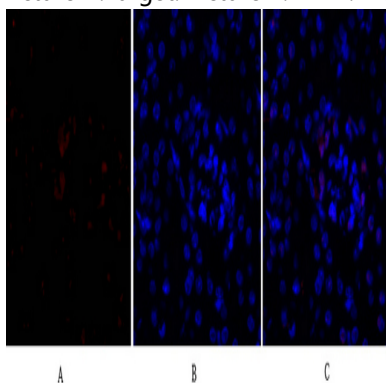


Immunofluorescence analysis of rat-kidney tissue. 1, Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

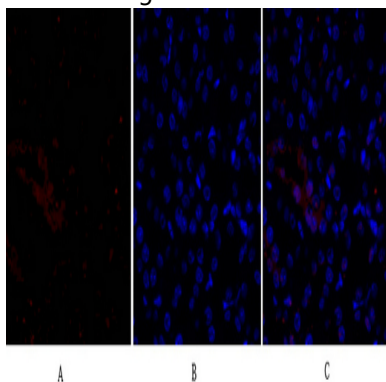
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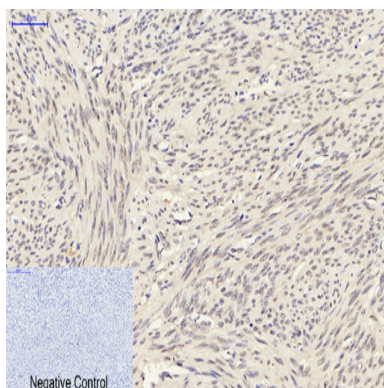


Immunofluorescence analysis of mouse-kidney tissue. 1, Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

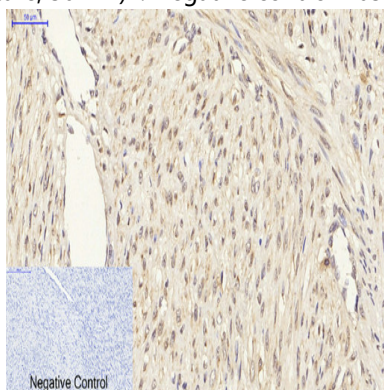


Immunofluorescence analysis of mouse-kidney tissue. 1, Smad3 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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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.

注意事项 (Note)

For research use only .