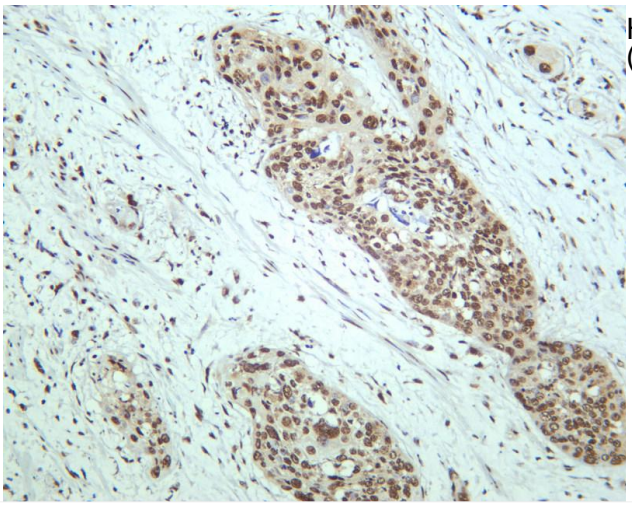
SMAD5(Phospho Ser463/Ser465) Rabbit mAb

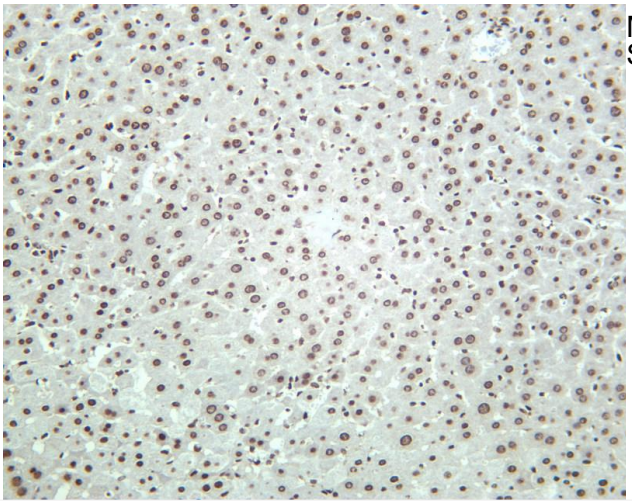
Catalog No	YP-rAb-17567
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	SMAD5
Protein Name	Mothers against decapentaplegic homolog 5
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	SMAD5 ; MADH5 ; Mothers against decapentaplegic homolog 5 ; MAD homolog 5 ; Mothers against DPP homolog 5 ; JV5-1 ; SMAD family member 5 ; SMAD 5 ; Smad5 ; hSmad5
Observed Band	60kD
Calculated Molecular Weight	52kD
Cell Pathway	Cytoplasm,Nucleus
Tissue Specificity	Ubiquitous.
Function	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD).,PTM:Phosphorylated on serine by BMP (bone morphogenetic proteins) type 1 receptor kinase.,PTM:Ubiquitin-mediated proteolysis by SMAD-specific E3 ubiquitin ligase SMURF1.,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:Cytoplasmic in the absence of ligand. Migrates to the nucleus when complexed with SMAD4.,subunit:May form trimers with the co-SMAD SMAD4. Interacts with PEBP2-alpha subunit and SMURF1. Interacts with SUV39H1 and SUV39H2.,tissue specificity:Ubiquitous.,

Background	The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

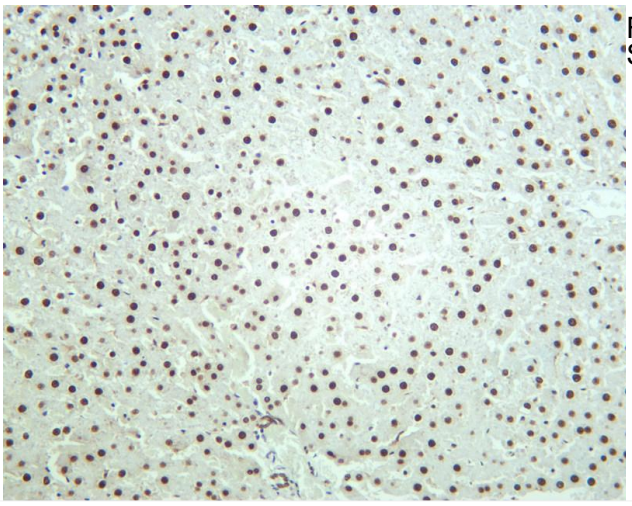
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SMAD5 (Phospho Ser463/Ser465) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: Hela Lane 3: NIH-3T3 Lane 4: Rat womb Predicted band size: 52kDa Observed band size: 60kDa



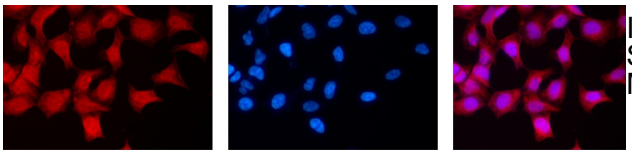
Human cervical carcinoma was stained with anti-SMAD5 (Phospho Ser463/Ser465) rabbit antibody



Mouse liver was stained with anti-SMAD5 (Phospho Ser463/Ser465) rabbit antibody



Rat liver was stained with anti-SMAD5 (Phospho Ser463/Ser465) rabbit antibody



A B C

Immunofluorescence analysis of HEK293. Picture A: SMAD5 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B