

SMAD5 (Phospho Ser463/Ser465) (PT0663R) PT™ Rabbit mAb

CatalogNo: YM8564 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 52kD (Calculated)
- 60kD (Observed)

Isotype

- IgG, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:500-1:2000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT0663R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Endogenous

Target Information

Gene name SMAD5

Protein Name Mothers against decapentaplegic homolog 5

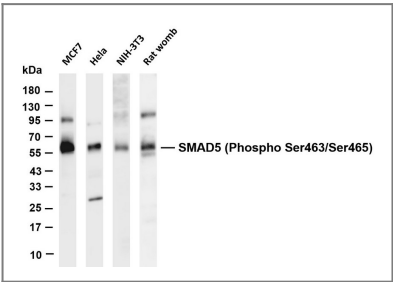
Organism	Gene ID	UniProt ID
Human	4087 ;	Q99717 ;
Mouse		P97454 ;
Rat	29357 ;	O70436 ;

Cellular Localization Cytoplasm,Nucleus

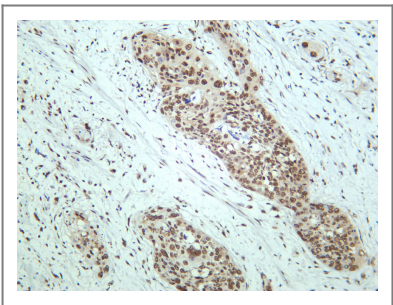
Tissue specificity Expressed at high levels in skeletal muscle, endothelial cells, heart and placenta.

Function 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.,

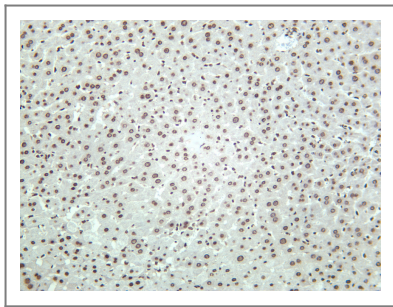
Validation Data



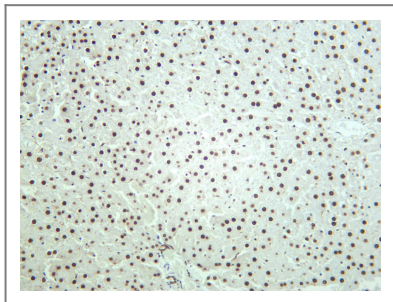
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SMAD5 (Phospho Ser463/Ser465) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: HeLa Lane 3: NIH-3T3 Lane 4: Rat womb Predicted band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



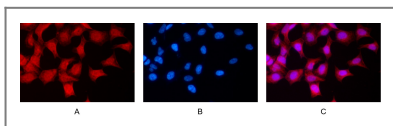
Human cervical carcinoma was stained with anti-SMAD5 (Phospho Ser463/Ser465) rabbit antibody



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



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



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

Contact information

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Please scan the QR code to access additional product information:
SMAD5 (Phospho Ser463/Ser465) (PT0663R) PT™ Rabbit mAb

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