Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014754

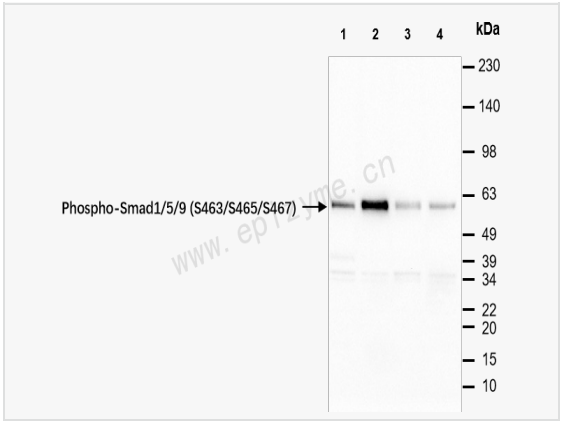
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	64M70A53
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Smad5
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb [64M70A53] is for research use only and not for use in diagnostic or therapeutic procedures.

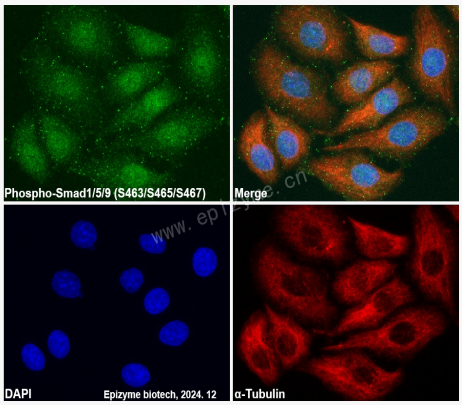
Protein Information

Synonyms	AI528653, DKFZp781C1895, DKFZp781O1323, Dwarfin A, Dwf A, Dwfc, hSMAD1, hSmad5, JV4 1, JV41, JV5 1, MAD (mothers against decapentaplegic, Drosophila) homolog 1, MAD (mothers against decapentaplegic, Drosophila) homolog 9, MAD homolog 1, MAD homolog 9, MAD homolog1 (mothers against decapentaplegic, Drosophila), Mad related protein 1, MAD, mothers against decapentaplegic homolog 9, Madh1, MADH5, MADH6, MADH9, MADR1, Mlp1, Mothers against decapentaplegic, drosophila, homolog of, 9, Mothers against DPP homolog 1, Mothers against DPP homolog 9, MusMLP, OTTHUMP00000178565, OTTMUSP00000022970, OTTMUSP00000022971, OTTMUSP00000022972, OTTMUSP0000002324, OTTMUSP00000023428, Sma- and Mad-related protein 1, SMAD, SMAD family member 5, SMAD8, SMAD8A, SMAD8B.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52 kDa
Uniprot ID	Q99717
Gene ID	4090
Background	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD).
Cellular Location	Smad1: Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand. Migrates to the nucleus when

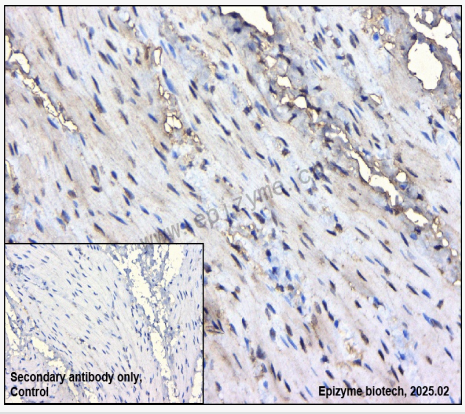
Validation Images



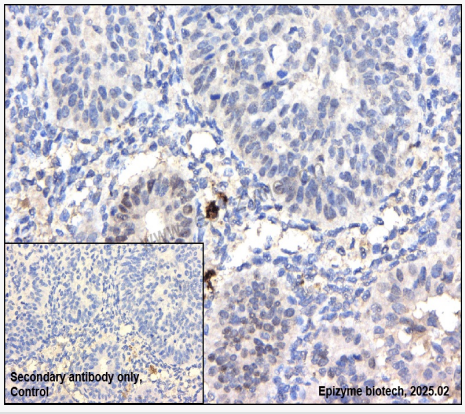
Western Blot - Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb [64M70A53]
All lanes: R014754 at 1:1,000 dilution
Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb [64M70A53]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014754 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb [64M70A53]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014754 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-Smad1/5/9 (Ser463/Ser465/Ser467) Rabbit mAb [64M70A53]
Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014754 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.