Smad5 (Phospho-Ser463/Ser465) Rabbit mAb

Catalog No: #14137

Package Size: #14137-1 50ul #14137-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Smad5 (Phospho-Ser463/Ser465) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Purification	Affinity-chromatography
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Specificity	Phospho-Smad5 (S463/465) Antibody detects endogenous levels of total Phospho-Smad5 (S463/465)
Immunogen Description	A synthesized peptide derived from human Phospho-Smad5 (S463/465)
Conjugates	Unconjugated
Other Names	hSmad5; JV5-1 ; MADH5; SMAD5; MusMLP ;SMAD family member 5;
Accession No.	Uniprot:Q99717
Calculated MW	52 kDa
SDS-PAGE MW	58 kDa
Formulation	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

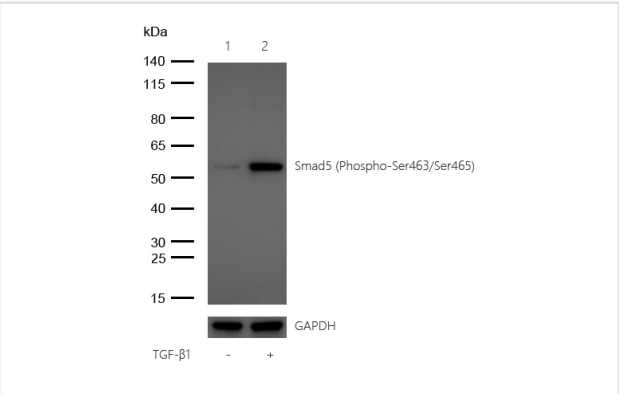
Application Details

WB: 1:500-1:2000

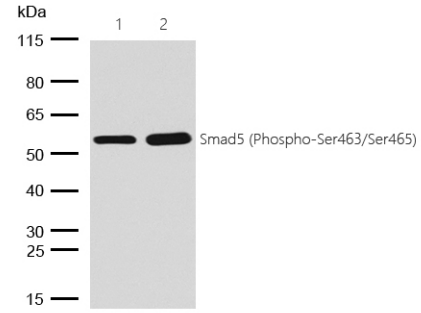
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

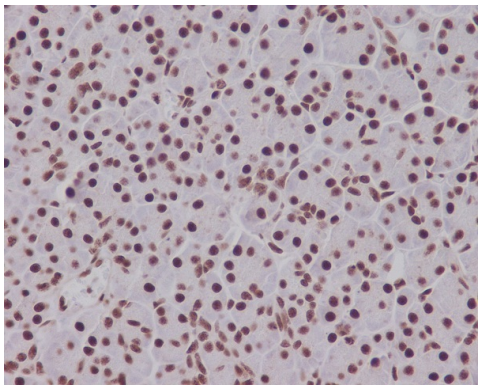
Images



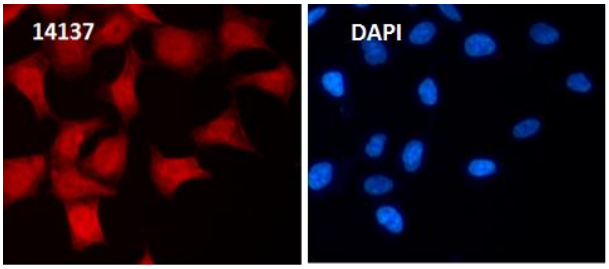
All lanes :Smad5 (Phospho-Ser463/Ser465) Rabbit mAb at 1/1k dilutionLane 1 : HepG2 whole cell lysatesLane 2 : HepG2 treated with 20 ng/mL TGFβ1 for 15 minutes whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 52 kDa Observed band size: 58 kDaExposure time: 5 seconds



All lanes :Smad5 (Phospho-Ser463/Ser465) Rabbit mAb at 1/1k dilutionLane 1 : Mouse Brain lysatesLane 2 : Rat Brain lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 52 kDa Observed band size: 58 kDaExposure time: 4 seconds



Formalin-fixed;paraffin-embedded human pancreas tissue stained for Smad5 (Phospho-Ser463/Ser465) using 14137 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Smad5 (Phospho-Ser463/Ser465) antibody (14137)
ICC/IF staining of (Phospho-Ser463/Ser465) in 293T cells.
Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 14137 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Product Description

Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD). SMAD5 is required for normal development of the cardiovascular system in vivo; lack of the SMAD5 gene results in apoptosis of cardiac myocytes.

Published Papers

Qiu Renjie, He Yutong, Zhan Jiamian, Li Qian, Cai Xiaohui, Hua Shaofeng, Wang Leyu, Sun Xiaomin, Tian Ye el at., Diselenide Nanogels Modulate Mitochondrial Function and Mitigate Oxidative Stress in Cardiomyocytes for Enhanced Cardiac Repair, ACS applied materials & interfaces, (2025)
PMID:40028900

Note: This product is for in vitro research use only and is not intended for use in humans or animals.