For Research Use Only

Phospho-SMAD2 (Ser465/467)/SMAD3 (Ser423/425) Recombinant monoclonal antibody

Catalog Number:86773-2-RR

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Basic Information

Catalog Number:
86773-2-RR

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC050743

GeneID (NCBI):
4088

UNIPROT ID:
P84022

Full Name:
SMAD family member 3

Calculated MW:
48 kDa

Observed MW:
52 kDa

Purification Method:
Protein A purification

CloneNo.:
251143C12

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : TGF beta 1 treated A549 cells,

Background Information

SMAD3, also named as hMAD 3 or Mad3, is a 425 amino acid protein, which contains one MH1 domain and one MH2 domain. Phospho-SMAD3 (Ser423/425) is the dual-phosphorylated, active form of SMAD3 that results from TGF-β, activin or BMP receptor kinase signaling. Upon ligand binding, the type II receptor phosphorylates the type I receptor, which in turn phosphorylates SMAD3 at Ser423 and Ser425 within the SSXS motif. This creates a binding surface for SMAD4, forming the heterotrimeric transcription complex that translocates to the nucleus to regulate genes involved in cell cycle control, fibrosis, immune modulation and epithelial-mesenchymal transition (EMT).

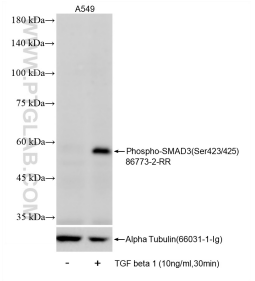
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data



Non-treated A549 cells and TGF beta 1 (HZ-1011) treated A549 cells were subjected to SDS PAGE followed by western blot with 86773-2-RR (Phospho-SMAD3(Ser423/425) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.