For Research Use Only

Phospho-SMAD1 (Ser214) Recombinant antibody

Catalog Number:81433-1-RR

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
81433-1-RR

Size:
100ul , Concentration: 800 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC001878

GeneID (NCBI):
4086

Full Name:
SMAD family member 1

Calculated MW:
52 kDa

Observed MW:
52 kDa

Purification Method:
Protein A purification

CloneNo.:
3K8

Recommended Dilutions:
WB 1:2000-1:16800

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, mouse

Positive Controls:

WB : UV treated A431 cells, UV treated NIH/3T3 cells, Calyculin A treated HepG2 cells

Background Information

SMAD family member 1 (Smad1) have been involved in metastatic progression of many cancer types. Smad1 can be induced by many tumor-stimulating cytokines such as the bone morphogenetic protein 2 (BMP2) and TNFα and plays important roles in cell invasion and metastasis. BMP2 signalling is initiated by binding to its specific receptors, which leads to in the phosphorylation and nuclear translocation of Smad1. Translocated Smad1 then modulates the expression of downstream osteogenic genes. (PMID: 32954678, PMID: 30008908)

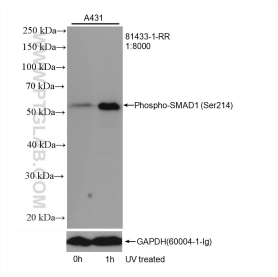
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

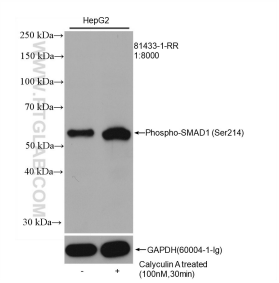
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

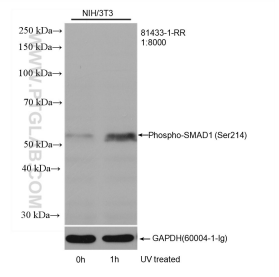
Selected Validation Data



Non-treated and UV treated A431 cells were subjected to SDS PAGE followed by western blot with 81433-1-RR (Phospho-SMAD1 (Ser214) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and Calyculin A treated HepG2 cells were subjected to SDS PAGE followed by western blot with 81433-1-RR (Phospho-SMAD1 (Ser214) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and UV treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 81433-1-RR (Phospho-SMAD1 (Ser214) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.