

AP1518

Leader in Biomolecular Solutions for Life Science



Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467 Rabbit mAb

Catalog No.: AP1518

Recombinant

Basic Information

Observed MW

60kDa

Calculated MW

52kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC59007

Background

The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB 1:1000 - 1:2000

IHC-P 1:50 - 1:200

IF/ICC 1:100 - 1:400

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4086/4090/4093

Swiss Prot

Q15797/Q99717/O15198

Immunogen

A synthetic phosphorylated peptide around S463/S465/S467 of human SMAD1/SMAD5/SMAD9.

Synonyms

BSP1; MADH1; MADR1; JV4-1; DWFC; JV5-1; MADH5; MADH6; MADH9; SMAD8; Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

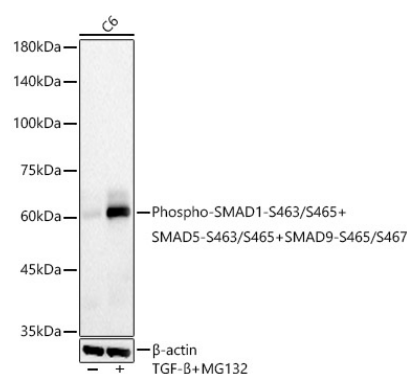
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact



www.abclonal.com

Validation Data



Western blot analysis of lysates from C6 cells using Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467 Rabbit mAb (AP1518) at 1:1000 dilution. C6 cells were treated by TGF beta 3(10ng/ml) and MG132(2 μM) at 37°C for 20 minutes.

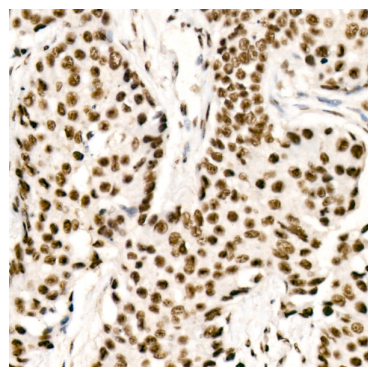
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25μg per lane.

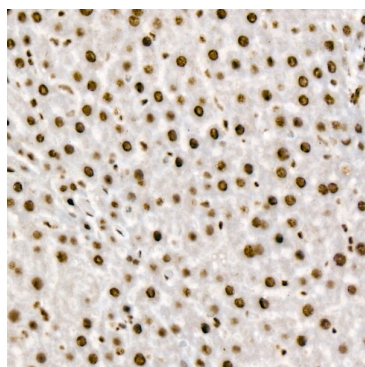
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

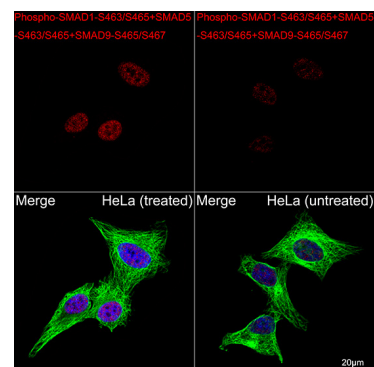
Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467 Rabbit mAb (AP1518) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467 Rabbit mAb (AP1518) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Confocal imaging of HeLa cells (treated with BMP2) and HeLa cells (untreated) using Phospho-SMAD1-S463/S465+SMAD5-S463/S465+SMAD9-S465/S467 Rabbit mAb (AP1518, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.