

Smad1 Rabbit mAb

Catalog No: #49149



Package Size: #49149-1 50ul #49149-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

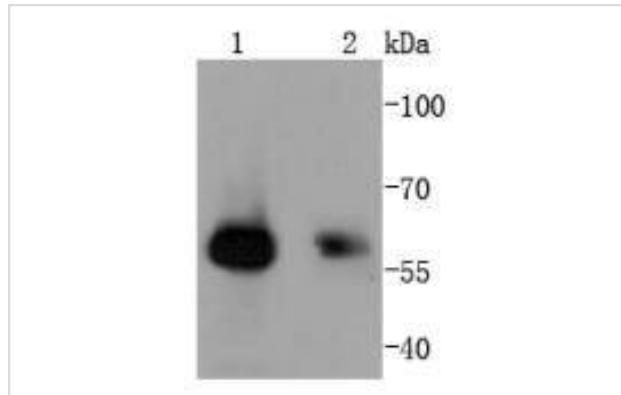
Description

Product Name	Smad1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD2090
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	BSP-1 antibody BSP1 antibody HsMAD1 antibody JV4-1 antibody JV41 antibody MAD homolog 1 antibody MAD mothers against decapentaplegic homolog 1 antibody Mad related protein 1 antibody Mad-related protein 1 antibody MADH1 antibody MADR1 antibody Mothers against decapentaplegic homolog 1 antibody Mothers against DPP homolog 1 antibody SMA- AND MAD-RELATED PROTEIN 1 antibody SMAD 1 antibody SMAD family member 1 antibody SMAD mothers against DPP homolog 1 antibody Smad1 antibody SMAD1_HUMAN antibody TGF beta signaling protein 1 antibody Transforming growth factor-beta-signaling protein 1 antibody
Accession No.	Swiss-Prot#:Q15797
Calculated MW	58 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

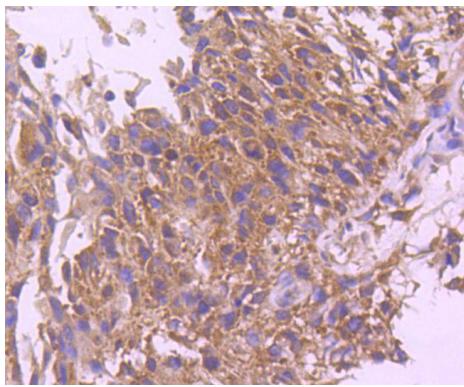
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:100-1:500 FC: 1:50-1:100

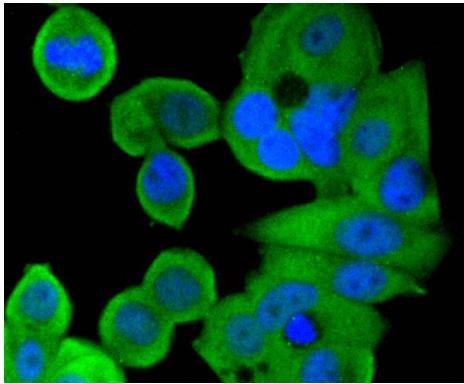
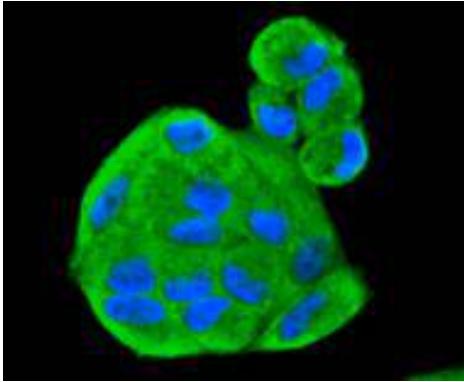
Images



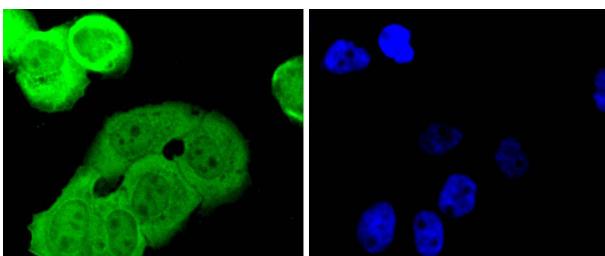
Western blot analysis of Smad1 on different lysates using anti-Smad1 antibody at 1/1,000 dilution. Positive control:
 Lane 1: Human skeletal muscle
 Lane 2: Hela



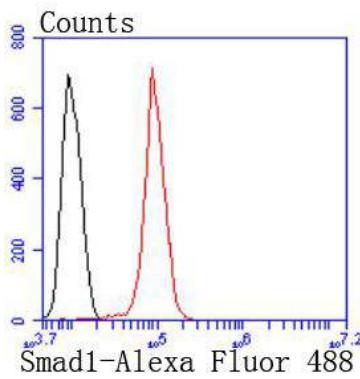
ICC staining Smad1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Smad1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Smad1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with Smad1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Smad proteins, the mammalian homologs of the *Drosophila* Mothers against dpp (Mad) have been implicated as downstream effectors of TGF β /BMP signaling. Smad1 (also designated Madr1 or JV4-1), Smad5 and mammalian Smad8 (also designated Smad9 or MADH6) are effectors of BMP2 and BMP4 function while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGF β and activin-mediated growth modulation. Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to activin/TGF β signaling by interfering with TGF β -mediated phosphorylation of other Smad family members.

References

1. Sakaki-Yumoto M et al. Smad2 is essential for maintenance of the human and mouse primed pluripotent stem cell state. *J Biol Chem* 288:18546-60 (2013).
2. Maioli M et al. Hyaluronan esters drive Smad gene expression and signaling enhancing cardiogenesis in mouse embryonic and human mesenchymal stem cells. *PLoS One* 5:e15151 (2010).

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