

Anti-Phospho-Smad2 (S250) Antibody [SD207-1]

ET1612-32



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC, IP
Molecular Wt:	Predicted band size: 52 kDa
Clone number:	SD207-1

Description: Smad proteins, the mammalian homologs of the Drosophila mothers against decapentaplegic (Mad), have been implicated as downstream effectors of TGF β /BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP-2 and BMP-4 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 proteins.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser250 of Human Smad2 aa 221-270 / 467.

Positive control: HeLa cell lysate, HeLa treated with 200nM PMA for 30 minutes cell lysate, NIH/3T3 cell lysate, NIH/3T3 treated with 200nM PMA for 30 minutes cell lysate, C6 cell lysate, C6 treated with 200nM PMA for 30 minutes cell lysate, HeLa.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: Q15796 Human | Q62432 Mouse | O70436 Rat

Recommended Dilutions:

WB	1:5,000
FC	1:50-1:100
IP	1-2 μ g/sample

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C or -80 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

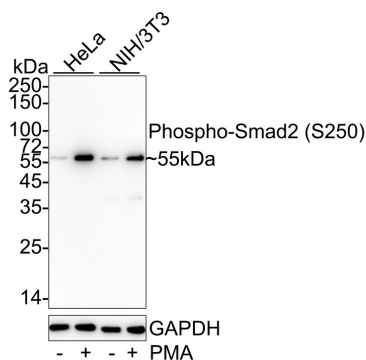
Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of Phospho-Smad2 (S250) on different lysates with Rabbit anti-Phospho-Smad2 (S250) antibody (ET1612-32) at 1/5,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: HeLa treated with 200nM PMA for 30 minutes cell lysate
Lane 3: NIH/3T3 cell lysate
Lane 4: NIH/3T3 treated with 200nM PMA for 30 minutes cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 52 kDa

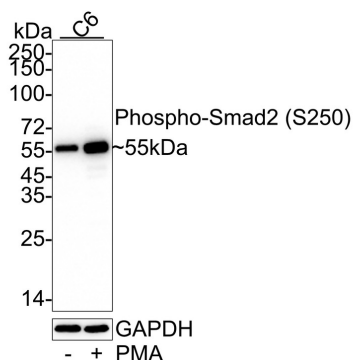
Observed band size: 55 kDa

Exposure time: 30 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1612-32) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Phospho-Smad2 (S250) on different lysates with Rabbit anti-Phospho-Smad2 (S250) antibody (ET1612-32) at 1/5,000 dilution.

Lane 1: C6 cell lysate
Lane 2: C6 treated with 200nM PMA for 30 minutes cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 52 kDa

Observed band size: 55 kDa

Exposure time: 2 minutes; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1612-32) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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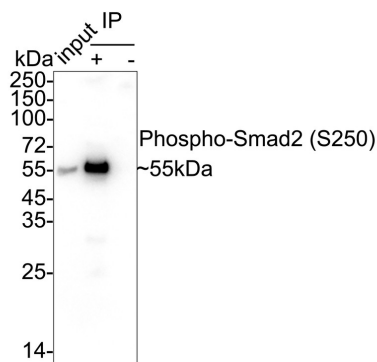


Fig3: Phospho-Smad2 (S250) was immunoprecipitated from 0.2 mg HeLa treated with 100nM TPA for 30 minutes cell lysate with ET1612-32 at 2 μ g/25 μ l agarose. Western blot was performed from the immunoprecipitate using ET1612-32 at 1/5,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa treated with 100nM TPA for 30 minutes cell lysate (input)

Lane 2: ET1612-32 IP in HeLa treated with 100nM TPA for 30 minutes cell lysate

Lane 3: Rabbit IgG instead of ET1612-32 in HeLa treated with 100nM TPA for 30 minutes cell lysate

Blocking/Dilution buffer: 5% NFDN/TBST

Exposure time: 35 seconds; ECL: K1802

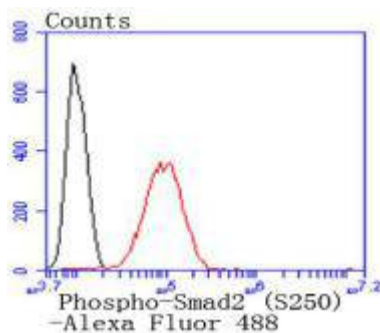


Fig4: Flow cytometric analysis of HeLa cells labeling Phospho-Smad2 (S250).

Cells were fixed and permeabilized. Then stained with the primary antibody (ET1612-32, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 $^{\circ}$ C for an hour, the cells were stained with a iFluorTM 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 $^{\circ}$ C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ungefroren H et al. Rac1b negatively regulates TGF- 1-induced cell motility in pancreatic ductal epithelial cells by suppressing Smad signalling. *Oncotarget* 5:277-90 (2014).
2. Harazono Y et al. miR-655 Is an EMT-suppressive MicroRNA targeting ZEB1 and TGFBR2. *PLoS One* 8:e62757 (2013).

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