



Phospho-Smad2 (Ser245 + Ser250 + Ser255) Rabbit pAb

Catalog Number: bs-3420R

Target Protein: Phospho-Smad2 (Ser245 + Ser250 + Ser255)

Concentration: 1mg/ml

Form: Liquid
Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (3µg/Test)

Reactivity: Human, Mouse (predicted:Rat, Pig, Cow, Dog)

Predicted MW: 58 kDa Entrez Gene: 4087 Swiss Prot: Q15796

Source: KLH conjugated Synthesised phosphopeptide derived from human Smad2 around the

phosphorylation site of Ser245/250/255: TG(p-S)PAEL(p-S)PTTL(p-S)PV.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the

gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators

that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA)

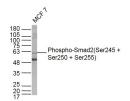
protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4. The association with SMAD4 is important for the translocation of this protein into the nucleus, where it binds to target promoters and forms a transcription repressor complex with other cofactors. This protein can also be

phosphorylated by activin type 1 receptor kinase, and mediates the signal from the activin. Alternatively spliced transcript variants have been observed for this gene. [provided by

(0 14 0010]

RefSeq, May 2012]

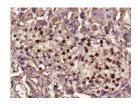
VALIDATION IMAGES



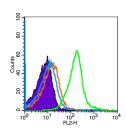
Sample: MCF 7 (Human) Lysate at 30 ug Primary: Anti-Phospho-Smad2(Ser245+Ser250+Ser255)(bs-3420R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 58 kD Observed band size: 58 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Smad2(Ser245 + Ser250 + Ser255)) Polyclonal Antibody, Unconjugated (bs-3420R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Smad2(Ser245 + Ser250 + Ser255)) Polyclonal Antibody, Unconjugated (bs-3420R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (Black line): Mouse spleen (Black). Primary Antibody (green line): Rabbit Anti-Phospho-Smad2(Ser245 + Ser250 + Ser255) antibody (bs-3420R) Dilution: $3\mu g/10^6$ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: $1\mu g$ /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA goat serum to block non-specific protein-protein interactions for 15 min at room temperature . Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=17.694] Kim, Duk Ki. et al. PD-L1-directed PIGF/VEGF blockade synergizes with chemotherapy by targeting CD141+ cancer-associated fibroblasts in pancreatic cancer. NAT COMMUN. 2022 Oct;13(1):1-19 FCM; MOUSE . 36272973

[IF=7.917] Huang Shu. et al. Targeting nano-regulator based on metal-organic frameworks for enhanced immunotherapy of bone metastatic prostate cancer. CANCER NANOTECHNOL. 2023 Dec;14(1):1-15 WB; Mouse, Human . 10.1186/s12645-023-00200-y

[IF=5.068] Chen XY et al. Pulsed Magnetic Field Stimuli Can Promote Chondrogenic Differentiation of Superparamagnetic Iron Oxide Nanoparticles-Labeled Mesenchymal Stem Cells in Rats. (2018) J Biomed Nanotechnol. 14(12):2135-2145. WB; Rat. 30305220

[IF=4.8] Yuanmei Bai. et al. Experimental study on H2O2 activation of HSC-T6 and hepatic fibrosis in cholestatic mice by "Yajieshaba". J ETHNOPHARMACOL. 2024 Dec;335:118712 IF,WB; Mouse,Rat. 39173724