[Primary Antibody]

phospho-Smad3 (Ser213) Rabbit pAb



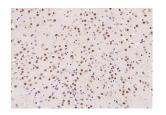
www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

– DATASHEET –––––		400-901-9800
Host: Rabbit Clonality: Polyclonal	lsotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500)
GenelD: 4088	SWISS: P84022	IF (1:100-500) Flow-Cyt (1µg/Test)
 Target: Smad3 (Ser213) Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Smad3 around the phosphorylation site of Ser213: PM(p-S)PA. Purification: affinity purified by Protein A 		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Sheep, Cow, Chicken, GuineaPig, Horse)
Concentration: 1mg/ml 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.		Predicted MW.: ^{47 kDa} Subcellular Location: ^{Cytoplasm} ,Nucleus
mediators of TGF be differentiation and o three subclasses: re receptor regulated ((Smad 1, 5, and 8); t its interaction to the (Smad6 and 7). Activ TGF beta stimulatio nucleus, allowing its	nember of a family of proteins that act as key eta superfamily signaling in cell proliferation, development. The Smad family is divided into ceptor regulated Smads, activin/TGF beta Smad2 and 3) or BMP receptor regulated he common partner, (Smad4) that functions via e various Smads; and the inhibitory Smads, vated Smad3 oligomerizes with Smad4 upon n and translocates as a complex into the s binding to DNA and transcription factors. the two TGF beta dependent serines 423 and	

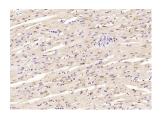
425 in the C terminus of Smad3 is critical for Smad3 transcriptional

- VALIDATION IMAGES

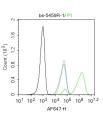
activity and TGF beta signaling.



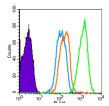
Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-Smad3 (Ser213)) Polyclonal Antibody, Unconjugated (bs-5459R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat heart); 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-Smad3 (Ser213)) Polyclonal Antibody, Unconjugated (bs-5459R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-phospho-Smad3 (Ser213) antibody (bs-5459R) Dilution: 1µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /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 -20°C. The cells were then incubated in 5%BSA to block nonspecific protein-protein interactions for 30 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.



Blank control (Black line): HUVEC (Black). Primary Antibody (green line): Rabbit Antiphospho-Smad3 (Ser213) antibody (bs-5459R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /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 to block non-specific protein-protein interactions for 30 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.

- SELECTED CITATIONS -

- [IF=4.4] Gao, Lili, et al. "Glycyrrhizic acid alleviates bleomycin-induced pulmonary fibrosis in rats." Frontiers in pharmacology 6 (2015). WB ;="Rat". 26483688
- [IF=3.701] S Q et al. Cyanidin-3-glucoside from black rice prevents renal dysfunction and renal fibrosis in streptozotocin-diabetic rats. Journal of Functional Foods,(2020)72, 104062. IHC ;Rat. doi:10.1016/j.jff.2020.104062
- [IF=3.1] Zhang, Hongjun, et al. "Magnolol Attenuates Concanavalin A induced Hepatic Fibrosis, Inhibits CD4+ T Helper 17 (Th17) Cell Differentiation and Suppresses Hepatic Stellate Cell Activation: Blockade of Smad3/Smad4 Signalling." Basic & Clinical Pharmacology & Toxicology (2016). WB ;="MOUSE". 28032440
- [IF=2.34] Zhou et al. Induced pluripotent stem cell-conditioned medium suppresses pulmonary fibroblast-tomyofibroblast differentiation via the inhibition of TGF-β1/Smad pathway. (2018) Int.J.Mol.Med. 41:473-484 WB ;Human. 29115383