DATACHEET

[Primary Antibody]

phospho-Smad3 (Ser213) Rabbit pAb



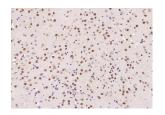
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- DATASHEET	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500) IF (1:100-500)
GenelD: 4088	SWISS: P84022	Flow-Cyt (1µg/Test)
Target: Smad3 (Ser213) Immunogen: KLH conjugated Synthesised phosphopeptide derived from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

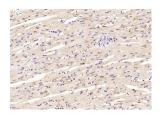
425 in the C terminus of Smad3 is critical for Smad3 transcriptional

- VALIDATION IMAGES

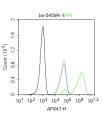
activity and TGF beta signaling.



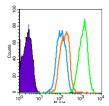
Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-Smad3 (Ser213)) 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
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- [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