bsm-52223R

[Primary Antibody]

Smad2 Recombinant Rabbit mAb



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- DATASHEET		400-901-9800
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Recombinant	CloneNo.: 9A3	IHC-P (1:50-200) IHC-F (1:50-200)
GenelD: 4087	SWISS: Q15796	IF (1:50-200)
Target: Smad2		Flow-Cyt (1ug/Test)
Immunogen: A synthesized peptide derived from human SMAD2: 230-270.		Reactivity: Human, Mouse, Rat
Purification: affinity purified by Protein A		
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.: ^{52 kDa}
Background: The protein encoded proteins similar to th 'mothers against dec Sma. SMAD proteins a modulators that med mediates the signal o and thus regulates m proliferation, apopto recruited to the TGF- SMAD anchor for rece TGF-beta signal, this receptors. The phosp protein with SARA an SMAD4. The associati translocation of this p target promoters and other cofactors. This type 1 receptor kinas Alternatively spliced	by this gene belongs to the SMAD, a family of e gene products of the Drosophila gene apentaplegic' (Mad) and the C. elegans gene are signal transducers and transcriptional iate multiple signaling pathways. This protein f the transforming growth factor (TGF)-beta, ultiple cellular processes, such as cell sis, and differentiation. This protein is beta receptors through its interaction with the ptor activation (SARA) protein. In response to protein is phosphorylated by the TGF-beta horylation induces the dissociation of this d the association with the family member on with SMAD4 is important for the protein into the nucleus, where it binds to forms a transcription repressor complex with portein can also be phosphorylated by activin. e, and mediates the signal from the activin. ranscript variants have been observed for by RefSeq, May 2012]	Location: Cytoplasm ,Nucleus

- VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with SMAD2 monoclonal antibody, unconjugated (bsm-52223R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.





25 ug total protein per lane of various lysates (see on figure) probed with Smad2 monoclonal antibody, unconjugated (bsm-52223R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad2 Monoclonal Antibody, Unconjugated(bsm-52223R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.





Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Smad2 Monoclonal Antibody, Unconjugated(bsm-52223R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining. Blank control: A431. Primary Antibody (green line): Rabbit Anti-Smad2 antibody (bsm-52223R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 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 non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. The Hela (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% icecold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-Smad2 antibody (bsm-52223R): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-40295G-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

- SELECTED CITATIONS -

• [IF=4.694] Qi SS et al. Protective Effects of Chromium Picolinate Against Diabetic-Induced Renal Dysfunction and Renal Fibrosis in Streptozotocin-Induced Diabetic Rats. Biomolecules. 2020 Mar 4;10(3). IHC ;rat. 32143429