

bs-23581R**[Primary Antibody]****Bioss**
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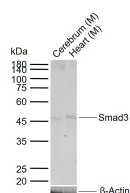
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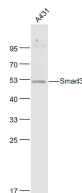
400-901-9800

Smad3 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Human, Mouse (predicted: Pig, Sheep, Cow, Dog, Horse)
GeneID: 4088	SWISS: P84022	Predicted MW.: 47 kDa
Target: Smad3		Subcellular Location: Cytoplasm ,Nucleus
Immunogen: KLH conjugated synthetic peptide derived from human Smad3: 61-160/425.		
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.		
Background: Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) or BMP receptor regulated (Smad 1, 5, and 8); the common partner, (Smad4) that functions via its interaction to the various Smads; and the inhibitory Smads, (Smad6 and 7). Activated Smad3 oligomerizes with Smad4 upon TGF beta stimulation and translocates as a complex into the nucleus, allowing its binding to DNA and transcription factors. Phosphorylation of the two TGF beta dependent serines 423 and 425 in the C terminus of Smad3 is critical for Smad3 transcriptional activity and TGF beta signaling.		

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Heart tissue lysates Primary: Anti-Smad3 (bs-23581R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kDa
Observed band size: 47 kDa



Sample: A431(Human) Cell Lysate at 30 ug
Primary: Anti- Smad3 (bs-23581R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD

— SELECTED CITATIONS —

- **[IF=4.784]** Zheng Wu. et al. FOXD3 suppresses epithelial-mesenchymal transition through direct transcriptional promotion of SMAD7 in esophageal squamous cell carcinoma. 2021 Sep 22 WB ;human. 34551139
- **[IF=2.7]** Junfeng He. et al. Effect of the TGF- β /BMP Signaling Pathway on the Proliferation of Yak Pulmonary Artery Smooth Muscle Cells under Hypoxic Conditions. ANIMALS. 2024 Jan;14(14):2072 WB ;Bovine. 39061534