

**bs-2973R****[ Primary Antibody ]****SMAD1 + SMAD5 Rabbit pAb****Bioss**  
**ANTIBODIES**

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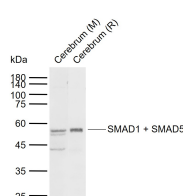
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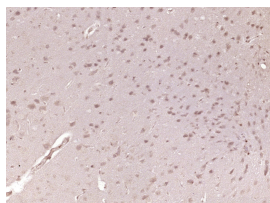
400-901-9800

**— DATASHEET —**

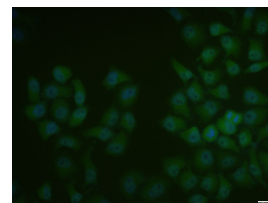
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:200-1000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>ICC/IF</b> (1:100)  <b>Reactivity:</b> Human, Mouse, Rabbit (predicted: Rat, Cow, Chicken, Dog, Horse)  <b>Predicted MW.:</b> 51 kDa  <b>Subcellular Location:</b> Cytoplasm ,Nucleus
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 4090	<b>SWISS:</b> Q99717	
<b>Target:</b> SMAD1 + SMAD5		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human SMAD5: 361-465/465.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]		

**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Cerebrum tissue lysates  
Lane 2: Rat Cerebrum tissue lysates Primary:  
Anti-SMAD1 + SMAD5 (bs-2973R) at 1/200  
dilution Secondary: IRDye800CW Goat Anti-  
Rabbit IgG at 1/20000 dilution Predicted band  
size: 51 kDa Observed band size: 55 kDa



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 (SMAD1 + SMAD5) Polyclonal  
Antibody, Unconjugated (bs-2973R) at 1:400  
overnight at 4°C, followed by operating  
according to SP Kit(Rabbit) (sp-0023)  
instructions and DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton  
X-100 at room temperature for 20 min; Blocking  
buffer (normal goat serum, C-0005) at 37°C for 20  
min; Antibody incubation with (SMAD1 + SMAD5)  
polyclonal Antibody, Unconjugated (bs-2973R)  
1:100, 90 minutes at 37°C; followed by a  
conjugated Goat Anti-Rabbit IgG antibody at  
37°C for 90 minutes, DAPI (blue, C02-04002) was  
used to stain the cell nuclei.

**— SELECTED CITATIONS —**

- **[IF=2.9]** Zhen Liu. et al. Enhanced bacteriostasis and osseointegrative properties of SiRNA-modified polyetheretherketone surface for implant applications. PLOS ONE. 2024 Dec;19(12):e0314091 WB ;Rat. 39636795
- **[IF=1.663]** Yu M et al. BMP4 mutations in tooth agenesis and low bone mass. Arch Oral Biol. 2019 Jul;103:40-46. WB ;Human. 31128441