

**bs-20024R****[ Primary Antibody ]****phospho-SMAD7 (Ser249) Rabbit pAb****Bioss**  
**ANTIBODIES**

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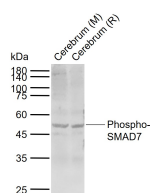
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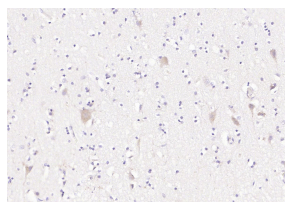
400-901-9800

**— DATASHEET —**

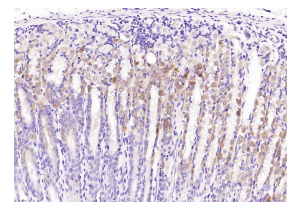
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4092 <b>Target:</b> SMAD7 (Ser249) <b>Immunogen:</b> KLH conjugated synthesised phosphopeptide derived from human SMAD7 around the phosphorylation site of Ser249: SD(p-S)QL. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</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 a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of this gene is induced by TGFB1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]	<b>Isotype:</b> IgG <b>SWISS:</b> O15105 <b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Pig, Cow, GuineaPig) <b>Predicted MW.:</b> 46 kDa <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Cerebrium tissue lysates  
Lane 2: Rat Cerebrium tissue lysates  
Primary: Anti-Phospho-SMAD7 (Ser249) (bs-20024R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 46 kDa  
Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (human 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-SMAD7 (Ser249) ) Polyclonal Antibody, Unconjugated (bs-20024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach); 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-SMAD7 (Ser249) ) Polyclonal Antibody, Unconjugated (bs-20024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=3.8]** Huang Lan. et al. Unveiling poly(rC)-binding protein 2 as the target protein for curcucosone C against prostate cancer: mechanism validation through click chemistry-activity based proteomics profiling approach. BMC CANCER. 2023 Dec;23(1):1-14 IHC, WB ; Mouse, Human. 37814239
- **[IF=3]** Amei Tang. et al. Tuberostemonine may alleviates proliferation of lung fibroblasts caused by pulmonary fibrosis. INT J IMMUNOPATH PH. ;(): WB ; Mouse. 39140804
- **[IF=2.2]** Yan Hong. et al. Paridis Rhizoma Saponins ameliorate CCl4-induced liver fibrosis via modulation of the Nrf2-

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

HO-1/NQO-1 and TGF- $\beta$ 1/Smads signaling pathways. Biochemistry and Biophysics Reports. 2025 Jun;42:102040 WB,IHC  
;Rat. 40458200