

bs-3484R**[Primary Antibody]****SMAD3 Rabbit pAb****Bioss**
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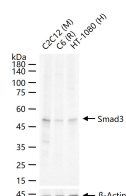
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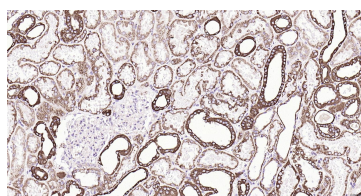
— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 4088**SWISS:** P84022**Target:** SMAD3**Immunogen:** KLH conjugated synthetic peptide derived from human Smad3: 31-80/425.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) 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.

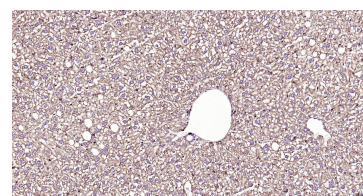
Background: Smad3 is a 50 kDa member of a family of proteins that act as key mediators of TGF beta superfamily signaling in cell proliferation, differentiation and development. The Smad family is divided into three subclasses: receptor regulated Smads, activin/TGF beta receptor regulated (Smad2 and 3) 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.

Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**ICC/IF** (1:100-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 47 kDa**Observed MW.:** 54 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

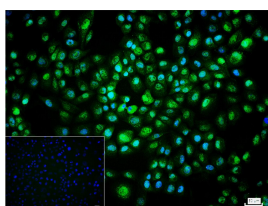
25 ug total protein per lane of various lysates (see on figure) probed with Smad3 polyclonal antibody, unconjugated (bs-3484R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



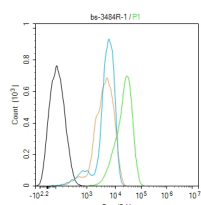
Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad3 Polyclonal Antibody, Unconjugated (bs-3484R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Smad3 Polyclonal Antibody, Unconjugated (bs-3484R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



HT-1080 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 (Smad3) polyclonal Antibody, Unconjugated (bs-3484R)



Blank control:HUVEC. Primary Antibody (green line): Rabbit Anti-Smad3 antibody (bs-3484R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA

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

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.

(10min at room temperature) and then permeabilized with 0.1% PBST 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=8.5]** Genghua Chen. et al. Bulk and single-cell alternative splicing analyses reveal roles of TRA2B in myogenic differentiation. CELL PROLIFERAT. 2023 Sep;;e13545 WB ;Chicken. 37705195
- **[IF=7.5]** Xiaochen Sun. et al. Study on the mechanism of stir-fried Fructus Tribuli in enhancing the essential hypertension treatment by an integrated "spectrum-effect relationship-network pharmacology-metabolomics" strategy. BIOMED PHARMACOTHER. 2023 Sep;165:115160 IHC ;Rat. 37459662
- **[IF=7.2]** Lin Niu. et al. Magnolol alleviates pulmonary fibrosis in chronic obstructive pulmonary disease by targeting transient receptor potential vanilloid 4-ankyrin repeat domain. PHYTOTHER RES. 2023 Jun;; IF, WB ;Human. 37282760
- **[IF=6.7]** Yantong Guo. et al. Asiaticoside modulates human NK cell functional fate by mediating metabolic flexibility in the tumor microenvironment. PHYTOMEDICINE. 2024 Oct;133:155921 WB ;Human. 39121533
- **[IF=6.388]** Yu-jie Lu. et al. Ligustilide attenuates airway remodeling in COPD mice by covalently binding to MH2 domain of Smad3 in pulmonary epithelium, disrupting the Smad3-SARA interaction. PHYTOTHER RES. 2022 Oct;; IF, IHC ;Mouse, Human. 36216328