**bs-0585R** **[ Primary Antibody ]**

# Smad4 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 4089 **SWISS:** Q13485

**Target:** Smad4

**Immunogen:** KLH conjugated synthetic peptide derived from human Smad4: 31-120/545.

**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:** Smad 4 is a member of the Mothers Against Dpp (MAD)-related family of proteins. So far, eight Smads have been identified and can be divided in 3 subgroups based on their structure and functions; pathway-restricted, common mediator and inhibitory Smad. Smad 4 is the common Smad (co-Smad). Previously identified as the tumor suppressor DPC4 (deleted in pancreatic carcinoma, locus 4), Smad 4 is functionally distinct among the Smad family, and is required for the assembly and transcriptional activation of diverse, Smad-DNA complexes. In contrast to the R-Smads, Smad 4 is not regulated by phosphorylation, but acts as a common mediator of TGF-Beta, activin, and bone morphogenetic protein signaling responses. Smad 4 is frequently inactivated in pancreatic, biliary and colorectal tumors.

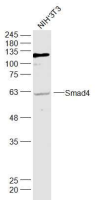
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Zebrafish, Chicken, Dog, Horse)

**Predicted MW.:** 60 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

## VALIDATION IMAGES




Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-Smad4 (bs-0585R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 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=4.171]** Yi Chen. et al. The essential oil from the raw and vinegar processed Rhizoma Curcumae ameliorate CCl4-incuded liver fibrosis: integrating network pharmacology and molecular mechanism evaluation. 2021 Mar 17 WB ;Rat. 33870974
- **[IF=2.795]** Chunyu Zhang et al. WISP1 promotes bovine MDSC differentiation via recruitment of ANXA1 for the regulation of the TGF-β signalling pathway. Mol Cell Biochem. 2020 Jul;470(1-2):215-227. WB ;Bovine. 32458119
- **[IF=3.342]** Feng Wang. et al. Metformin reduces myogenic contracture and myofibrosis induced by rat knee joint

immobilization via AMPK-mediated inhibition of TGF-β1/Smad signaling pathway. CONNECT TISSUE RES. 2022 Jun 20 WB ;Rat. 35723580