bs-0566R **[Primary Antibody]**

SMAD7 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4092 **SWISS:** O15105

Target: SMAD7

Immunogen: KLH conjugated synthetic peptide derived from human Smad7: 1-100/426.

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: 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 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. 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]

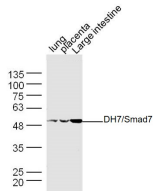
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow)

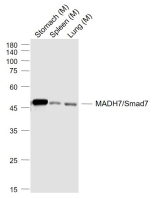
Predicted MW.: 46 kDa

Subcellular Location: Cytoplasm ,Nucleus

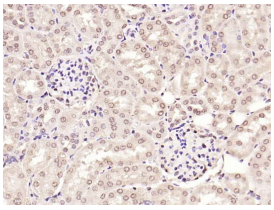
VALIDATION IMAGES



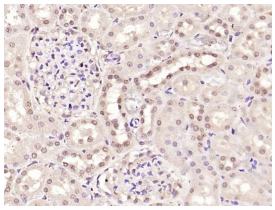
Sample: Lung(Mouse) Lysate at 30 ug Placenta(Mouse) Lysate at 30 ug Large intestine(Mouse) Lysate at 30 ug Primary: Anti-MADH7/Smad7 (bs-0566R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 50 kD



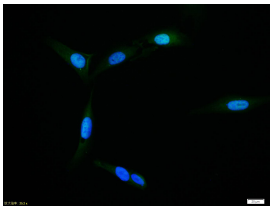
Sample: Lane 1: Stomach (Mouse) Lysate at 40 ug Lane 2: Spleen (Mouse) Lysate at 40 ug Lane 3: Lung (Mouse) Lysate at 40 ug Primary: Anti-MADH7/Smad7 (bs-0566R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD



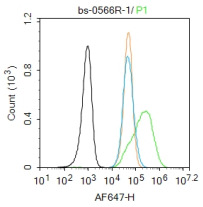
Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MADH7) Polyclonal Antibody, Unconjugated (bs-0566R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); 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



U-2OS 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 (MADH7/Smad7) polyclonal Antibody, Unconjugated (bs-0566R)



Blank control: SH-SY5Y. Primary Antibody (green line): Rabbit Anti-MADH7/Smad7 antibody (bs-0566R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647

goat serum) at 37°C for 30min; Antibody incubation with (MADH7) Polyclonal Antibody, Unconjugated (bs-0566R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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.

Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C.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=5.893]** Ying Wang. et al. Discovery of a novel short peptide with efficacy in accelerating the healing of skin wounds. Pharmacol Res. 2021 Jan;163:105296 WB ;Mouse. 33220421
- **[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=4.101]** Yu Guo. et al. RepSox effectively promotes the induced differentiation of sheep fibroblasts into adipocytes via the inhibition of the TGF-β1/Smad pathway. Int J Mol Med. 2021 Aug;48(2):1-13 WB ;Sheep. 34132357
- **[IF=3.571]** Zheng HX et al. Cyanidin-3-glucoside from Black Rice Ameliorates Diabetic Nephropathy via Reducing Blood Glucose, Suppressing Oxidative Stress and Inflammation, and Regulating Transforming Growth Factor β1/Smad Expression. J Agric Food Chem. 2020 Apr 15;68(15):4399-4410. IHC ;Rat. 32192334