

SMAD7 Antibody

Catalog No: #37036

Package Size: #37036 100ul

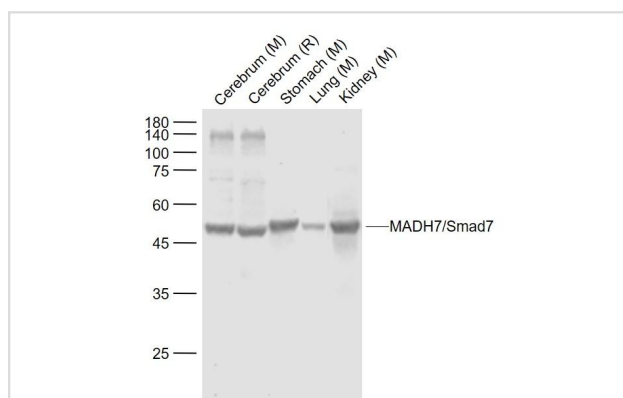
Description

Product Name	SMAD7 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	affinity purified by Protein A
Applications	WB;ICC/IF;IHC ;FC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total SMAD7 protein.
Immunogen Type	Peptide
Immunogen Description	KLH conjugated synthetic peptide derived from human Smad7
Conjugates	Unconjugated
Target Name	SMAD7
Other Names	CRCS3; MADH7; MADH8
Accession No.	Swiss-Prot#: O15105NCBI Gene ID: 4092Gene Accssion: NP_005895
SDS-PAGE MW	46kd
Concentration	1mg/ml
Formulation	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

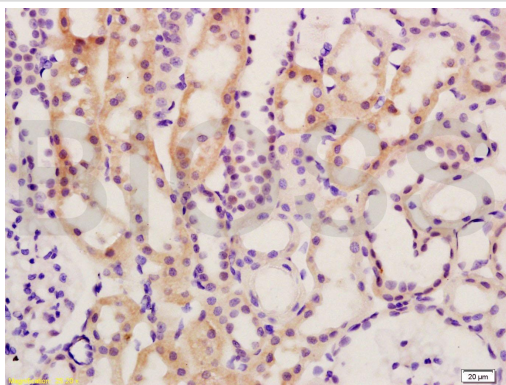
Application Details

WB 1:500-1:2000; IHC 1:100-1:500; ICC/IF 1:100-1:500; FC:1ug/Test

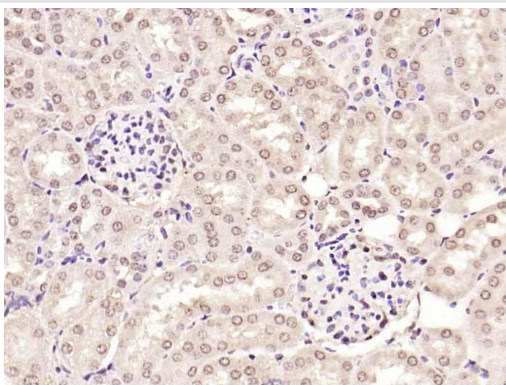
Images



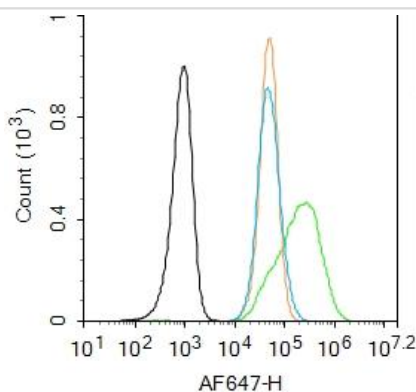
Lane 1: Cerebrum (Mouse) Lysate at 40 ug; Lane 2: Cerebrum (Rat) Lysate at 40 ug; Lane 3: Stomach (Mouse) Lysate at 40 ug; Lane 4: Lung (Mouse) Lysate at 40 ug; Lane 5: Kidney (Mouse) Lysate at 40 ug; Primary: SMAD7 Antibody at 1/1000 dilution; Secondary: Goat Anti-Rabbit IgG at 1/20000 dilution



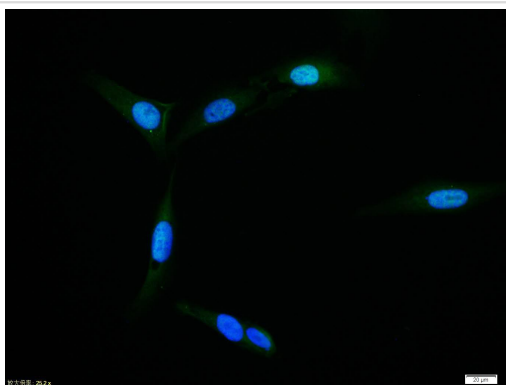
rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; SMAD7 Antibody at 1:200.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); SMAD7 Antibody at 1:200.



Blank control: SH-SY5Y. Primary Antibody (green line): SMAD7 Antibody Dilution: 1 μ g / 10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1 μ g /test.



U-2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with SMAD7 Antibody.

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 (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 (CRC3). Several transcript variants encoding different isoforms have been found for this gene.

Published Papers

et al., TGF β 1 mediated Smad signaling pathway and EMT in hepatic fibrosis induced by Nano NiO in vivo and in vitro. In Environ Toxicol on 2020 Apr by Zhang Q, Chang X ,et al.. PMID: 31737983, , (2020)

[PMID:31737983](#)

Jie Guo;Suhan Zhou;Honghong Wang;Xingyu Qiu;Fang Dong;Shan Jiang;Nan Xu;Yu Cui;Ruisheng Liu;Pengyun Li;Zufu Ma;Liang Zhao;En Yin Lai et al., ADAMTS13 attenuates renal fibrosis by suppressing thrombospondin 1 mediated TGF- β 1/Smad3 activation., , (2025)

[PMID:39929281](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.