bs-4253R **[Primary Antibody]**

SMAD9 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4093 **SWISS:** O15198

Target: SMAD9

Immunogen: KLH conjugated synthetic peptide derived from human SMAD9: 361-467/467.

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: SMAD9 is a member of the MAD-related family of molecules. MAD-related proteins are a recently identified family of intracellular proteins that are thought to be essential components in the signaling pathways of the serine/threonine kinase receptors of the transforming growth factor beta superfamily.

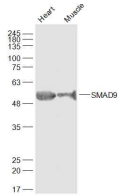
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (3μg/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Chicken, Dog, Horse)

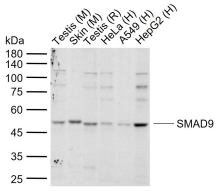
Predicted MW.: 52 kDa

Subcellular Location: Cytoplasm ,Nucleus

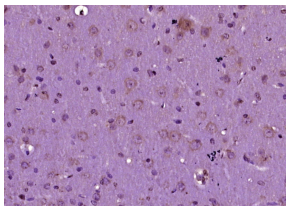
VALIDATION IMAGES



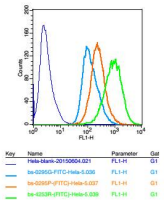
Sample: Heart (Mouse) Lysate at 40 ug Muscle (Mouse) Lysate at 40 ug Primary: Anti-SMAD9 (bs-4253R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Mouse Skin tissue lysates Lane 3: Rat Testis tissue lysates Lane 4: Human HeLa cell lysates Lane 5: Human A549 cell lysates Lane 6: Human HepG2 cell lysates Primary: Anti-SMAD9 (bs-4253R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (SMAD9) Polyclonal Antibody, Unconjugated (bs-4253R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Positive control: Hela cells Concebtration: 3μg/10^6 cells Incubation conditions: Avoid light , 30 minutes on the ice.

SELECTED CITATIONS

- **[IF=5.5]** Mai Zhaoyi. et al. Long noncoding RNA KCNMA1-AS1 promotes osteogenic differentiation of human bone marrow mesenchymal stem cells by activating the SMAD9 signaling pathway. BIOL DIRECT. 2023 Dec;18(1):1-13 IHC,IF ;Human,Mouse. 38017487
- **[IF=4.427]** Lijie Dong. et al. RNA sequencing reveals BMP4 as a basis for the dual-target treatment of diabetic retinopathy. J Mol Med. 2021 Feb;99(2):225-240 WB,IF ;Monkey, Rat, Human. 33188599
- **[IF=3.15]** Yang Zhai. et al. Construction of the optimization prognostic model based on differentially expressed immune genes of lung adenocarcinoma. Bmc Cancer. 2021 Dec;21(1):1-13 IHC ;Human. 33648465