bs-12417R

[Primary Antibody]

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Activin Receptor Type IIB Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GeneID: 93 **SWISS:** Q13705

Target: Activin Receptor Type IIB

Immunogen: KLH conjugated synthetic peptide derived from human

ACVR2B/ACTR-IIB: 45-150/512. < Extracellular >

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: Activin receptor type-2B(Activin receptor type IIB; ACTR-IIB) On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin A, activin B and inhibin A. [Subcellular Location] Membrane; Single-pass type I membrane protein. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

Applications: WB (1:500-2000)

IHC-P (1:100-500) **IHC-F** (1:100-500) **IF** (1:100-500)

Reactivity: Human, Mouse

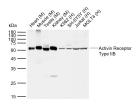
(predicted: Rat, Pig, Sheep,

Cow, Dog)

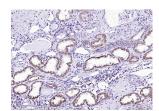
Predicted 56 kDa MW.:

Subcellular Location: Cell membrane

VALIDATION IMAGES -



Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Mouse Muscle tissue lysates Lane 3: Mouse Testis tissue lysates Lane 4: Mouse Kidney tissue lysates Lane 5: Human K562 cell lysates Lane 6: Human SH-SY5Y cell lysates Lane 7: Human Jurkat cell lysates Lane 8: Human MOLT4 cell Ivsates Primary: Anti-Activin Receptor Type IIB (bs-12417R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 60 kDa



Paraformaldehyde-fixed, paraffin embedded (Human 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 (Activin Receptor Type IIB) Polyclonal Antibody, Unconjugated (bs-12417R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- [IF=4.9] Agustina Cano-Martínez. et al. A Combination of Resveratrol and Quercetin Prevents Sarcopenic Obesity: Its Role as a Signaling Inhibitor of Myostatin/ActRIIA and ActRIIB/Smad and as an Enhancer of Insulin Actions. INT J MOL SCI. 2025 Jan;26(10):4952 IF; Rat. 40430092
- [IF=3.9] Weipu Mao. et al. Expression and distribution of activin-follistatin-inhibin axis in the urinary bladder.. Frontiers in Molecular Biosciences. 2025 Mar 12:12:1519977. Western blot; Mouse. 40144023