

Anti-Activin Receptor Type IIB / ACVR2B Antibody [JE33-52] HA722725



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 58 kDa
Clone number:	JE33-52

Description:	Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.
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Immunogen:	Synthetic peptide within human ACVR2B aa 159-208 / 512.
Positive control:	293T cell lysate, K-562 cell lysate, Jurkat cell lysate, HeLa cell lysate, Mouse heart tissue lysate, Rat heart tissue lysate.
Subcellular location:	Cell membrane.
Database links:	SwissProt: Q13705 Human P27040 Mouse P38445 Rat
Recommended Dilutions:	
WB	1:1,000
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

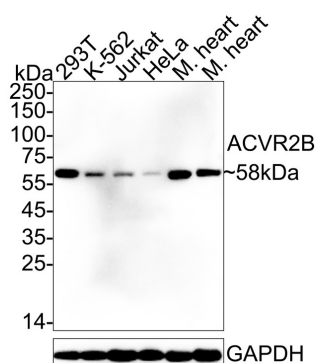


Fig1: Western blot analysis of Activin Receptor Type IIB / ACVR2B on different lysates with Rabbit anti-Activin Receptor Type IIB / ACVR2B antibody (HA722725) at 1/1,000 dilution.

Lane 1: 293T cell lysate (20 µg/Lane)
 Lane 2: K-562 cell lysate (20 µg/Lane)
 Lane 3: Jurkat cell lysate (20 µg/Lane)
 Lane 4: HeLa cell lysate (20 µg/Lane)
 Lane 5: Mouse heart tissue lysate (40 µg/Lane)
 Lane 6: Rat heart tissue lysate (40 µg/Lane)

Predicted band size: 58 kDa

Observed band size: 58 kDa

Exposure time: 1 minute; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722725) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jeon J et al. Blockade of Activin Receptor IIB Protects Arthritis Pathogenesis by Non-Amplification of Activin A-ACVR2B-NOX4 Axis Pathway. Adv Sci (Weinh). 2023 May
2. Szabó Z et al. Systemic blockade of ACVR2B ligands attenuates muscle wasting in ischemic heart failure without compromising cardiac function. FASEB J. 2020 Aug

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