

# Anti-ACVR2B Antibody [A5H7]

HA600067



<b>Product Type:</b>	Mouse monoclonal IgG2a, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Zebrafish
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	58 kDa
<b>Clone number:</b>	A5H7

**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.

**Immunogen:** Synthetic peptide within human ACVR2B aa 331-380 / 512.

**Positive control:** HeLa cell lysates.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: Q13705 Human

**Recommended Dilutions:**

**WB** 1:500-1:2,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein G affinity purified.

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Orders: 0086-571-88062880

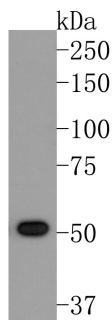
Technical:0086-571-89986345

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## Images



**Fig1:** Western blot analysis of ACVR2B on HeLa cell lysates. Proteins were transferred to a PVDF membrane and blocked with 5% NFDW/TBST for 1 hour at room temperature. The primary antibody (HA600067, 1/500) was used in 5% NFDW/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 1 hour at room temperature.

Predicted band size: 58 kDa

Observed band size: 50 kDa

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

## Background References

1. Huot JR. et. al. ACVR2B antagonism as a countermeasure to multi-organ perturbations in metastatic colorectal cancer cachexia. *J Cachexia Sarcopenia Muscle*. 2020 Dec
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