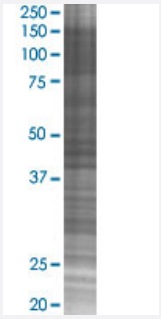
ACVR2B 293T Cell Transient Overexpression Lysate(Denatured)

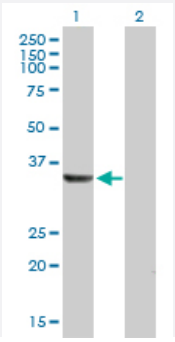
Catalog # H00000093-T02 Size 100 uL

Applications



SDS-PAGE Gel

ACVR2B transfected lysate.



Western Blot

Lane 1: ACVR2B transfected lysate (34.20 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ACVR2B full-length
Host	Human
Theoretical MW (kDa)	34.2
Interspecies Antigen Sequence	Mouse (99); Rat (99)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-ACVR2B antibody (H00000093-B01) by Western Blots. SDS-PAGE Gel ACVR2B transfected lysate. Western Blot Lane 1: ACVR2B transfected lysate (34.20 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — ACVR2B

Entrez GeneID	93
GeneBank Accession#	BC096245.1
Protein Accession#	AAH96245.1
Gene Name	ACVR2B
Gene Alias	ACTRIIB, ActR-IIB, MGC116908
Gene Description	activin A receptor, type IIB
Omim ID	602730
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq

Other Designations	activin A type IIB receptor

Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

Disease

- Genetic Predisposition to Disease
- Hyperparathyroidism
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder