

DNAXPab

Hard-to-Find
Antibody

ACVR1 DNAXPab

Catalog # H00000090-W01P

Size 200 ug

Specification

Product Description Rabbit polyclonal antibody raised against a full-length human ACVR1 DNA using DNAX™ Immune technology.

Technology [DNAX™ Immune](#)

Immunogen Full-length human DNA

Sequence MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFH
VYQKGCFQVYEQGKMTCKTPSPGQAVECCQGDWCNRNITACLPTKGKSFPGTQNFHLEVGLIIL
SVVFAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTLADLLDHSGTSGSGSG
LPFLVQRTVARQITLLECVGKGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETELNTVMLRH
ENILGFASDMTSRHSSTQLWLITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGK
PAIAHRDLKSKNILVKKNGQCCADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVD
CFDSYKRVDWAFGLVLWEVARRMVSNGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIP
NRWFSIPTLTSLAKLMKECWYQNPSARLTALRIKKTLTKIDNSLDKLTDC

Host Rabbit

Reactivity Human

Interspecies Antigen Sequence Mouse (98); Rat (97)

Purification Protein A

Quality Control Testing Antibody reactive against mammalian transfected lysate.

Storage Buffer In 1x PBS, pH 7.4

Storage Instruction Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — ACVR1

Entrez GeneID [90](#)

GeneBank Accession# [NM_001105.2](#)

Protein Accession# [NP_001096.1](#)

Gene Name ACVR1

Gene Alias ACTRI, ACVR1A, ACVRLK2, ALK2, FOP, SKR1, TSRI

Gene Description activin A receptor, type I

Omim ID [102576 135100](#)

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. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq]

Other Designations

TGF-B superfamily receptor type II|activin A receptor, type II-like kinase 2|activin A type I receptor|hydroxyalkyl-protein kinase|serine/threonine-protein kinase receptor R1

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

Disease

- [Abortion](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Intracranial Aneurysm](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Stroke](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)