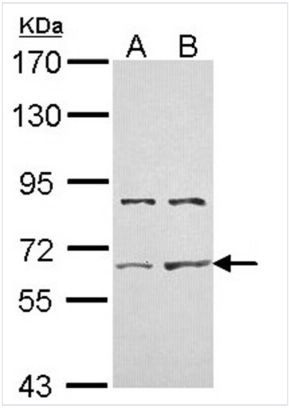
ACTR-II Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACTR-II, Polyclonal Antibody
Full Product Name	ACTR-II antibody
Product Gene Name	anti-ACTR-II antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 0.1M Tris-buffered saline with 20% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Purified by antigen-affinity chromatography.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	45,713 Da
OMIM	102581
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 267 and 509 of Human ACVR2A
Target Name	ACTR-II
Product Categories/Family for anti-ACTR-II antibody	Total protein Ab
Applications Tested/Suitable for anti-ACTR-II antibody	Western Blot (WB)
Application Notes for anti-ACTR-II antibody	Western blotting: 1:500-1:3000
Related Product Information for anti-ACTR-II antibody	This gene encodes activin A type II receptor. 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. [provided by RefSeq]
Other Notes	Small volumes of anti-ACTR-II antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACTR-II purchase	MBS9412408 is an antibody targeting ACTR-II. Also known as ACTR-II antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-ACTR-II antibody
Sample (30 ug of whole cell lysate) A: Hela B: Hep G2 7.5% SDS PAGE Primary antibody diluted at 1: 10000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTR-II. It may not necessarily be applicable to this product.

NCBI GI #	46854719
NCBI GeneID	92
NCBI Accession #	AAH69707
UniProt Secondary Accession #	Q53TH4; Q6NWV2; Q92474; B2RAB8; B4DWQ2; D3DP85
UniProt Related Accession #	P27037
NCBI Official Full Name	Activin A receptor, type IIA
NCBI Official Synonym Full Names	activin A receptor, type IIA
NCBI Official Symbol	ACVR2A
NCBI Official Synonym Symbols	ACVR2; ACTRII
UniProt Protein Name	Activin receptor type-2A
UniProt Synonym Protein Names	Activin receptor type IIA; ACTR-IIA; ACTRIIA
UniProt Gene Name	ACVR2A
UniProt Synonym Gene Names	ACVR2; ACTR-IIA; ACTRIIA
UniProt Entry Name	AVR2A_HUMAN
NCBI Protein Information	activin receptor type-2A
NCBI Summary for ACTR-II	This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jun 2013]

UniProt Comments for ACTR-II	ACVR2A: a tyrosine-kinase like receptor kinase of the STKR family. The holoreceptor receptor is 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. Each is composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic kinase domain. 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 receptor kinases are apparently constitutively active. Protein type: Protein kinase, TKL; Kinase, protein; Protein kinase, Ser/Thr (receptor); Motility/polarity/chemotaxis; EC 2.7.11.30; Membrane protein, integral; TKL group; STKR family; Type2 subfamily Chromosomal Location of Human Ortholog: 2q22.3 Cellular Component: cell surface; integral to plasma membrane; cytoplasm; plasma membrane; receptor complex Molecular Function: activin receptor activity; protein self-association; metal ion binding; transmembrane receptor protein serine/threonine kinase activity; PDZ domain binding; transforming growth factor beta receptor activity; protein serine/threonine kinase activity; protein binding; growth factor binding; activin binding; coreceptor activity; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: positive regulation of erythrocyte differentiation; embryonic skeletal development; regulation of BMP signaling pathway; activin receptor signaling pathway; Sertoli cell proliferation; gastrulation with mouth forming second; positive regulation of bone mineralization; protein amino acid phosphorylation; anterior/posterior pattern formation; BMP signaling pathway; positive regulation of osteoblast differentiation; positive regulation of activin receptor signaling pathway; transmembrane receptor protein serine/threonine kinase signaling pathway; mesoderm development; spermatogenesis; positive regulation of protein amino acid phosphorylation; sperm ejaculation; regulation of nitric-oxide synthase activity; determination of left/right symmetry; penile erection
Research Articles on ACTR-II	**1.** For ACVR2A SNPs (rs10497025, rs1128919, rs13430086), no statistically significant difference was found between preeclampsia and control groups in terms of genotype and allele frequencies.
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