

Anti-ACVR2A Picoband Antibody

Catalog # ABO11645

Product Information

Application	WB, IHC-P
Primary Accession	P27037
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Activin receptor type-2A(ACVR2A) detection. Tested with WB, IHC-P in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	92
Other Names	Activin receptor type-2A, 2.7.11.30, Activin receptor type IIA, ACTR-IIA, ACTRIIA, ACVR2A, ACVR2
Calculated MW	57848
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Activin receptor type-2A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human ACVR2A recombinant protein (Position: Q421-L513). Human ACVR2A shares 100% and 98.9% amino acid (aa) sequence identity with mouse and rat ACVR2A, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

freezing and thawing.

Protein Information

Name	ACVR2A (HGNC:173)
Synonyms	ACVR2
Function	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin A, activin B and inhibin A (PubMed: 17911401 , PubMed: 10652306). Mediates induction of adipogenesis by GDF6 (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P27038}; Single-pass type I membrane protein

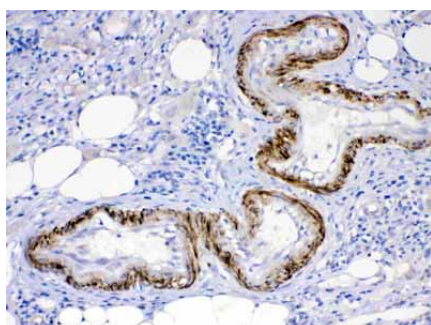
Background

Activin receptor type-2A is a protein that in humans is encoded by the ACVR2A gene. ACVR2A is an activin type 2 receptor. 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.

Images



Western blot analysis of ACVR2A expression in rat kidney extract (lane 1) and HELA whole cell lysates (lane 2). ACVR2A at 75KD was detected using rabbit anti- ACVR2A Antigen Affinity purified polyclonal antibody (Catalog # ABO11645) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



ACVR2A was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- ACVR2A Antigen Affinity purified polyclonal antibody (Catalog # ABO11645) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

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