

Active Recombinant Human ACVR2A Protein, GST-tagged

Cat. No. ACVR2A-254H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Human ACVR2A (NP_001607.1, 162 a.a. - 513 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells. |
| Species | Human |
| Source | Insect Cells |
| ProteinLength | 162-513 a.a. |
| Description | <p>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]</p> |
| Form | Liquid |
| Bio-activity | The activity was determined by ELISA. The enzyme was incubated with biotinylated substrate protein, and after stopping kinase reaction by EDTA, the reaction solution |

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was transferred into streptavidin- coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG. Substrate: ALK4 inactive mutant. ATP: 100 uM.

| | |
|-----------------------|---|
| Molecular Mass | 67 kDa |
| Purity | 95 % by SDS-PAGE/CBB staining |
| Applications | Functional Study SDS-PAGE |
| Storage | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| Storage Buffer | In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol) |

GENE INFORMATION

| | |
|------------------------|---|
| Gene Name | ACVR2A activin A receptor, type IIA [Homo sapiens] |
| Official Symbol | ACVR2A |
| Synonyms | ACVR2A; activin A receptor, type IIA; activin A receptor, type II , ACVR2; activin receptor type-2A; ACTRII; ACVR2; |
| Gene ID | 92 |
| mRNA Refseq | NM_001616 |
| Protein Refseq | NP_001607 |
| MIM | 102581 |

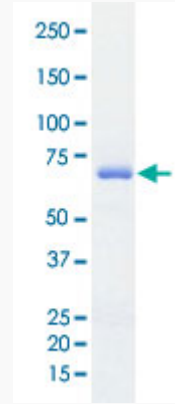
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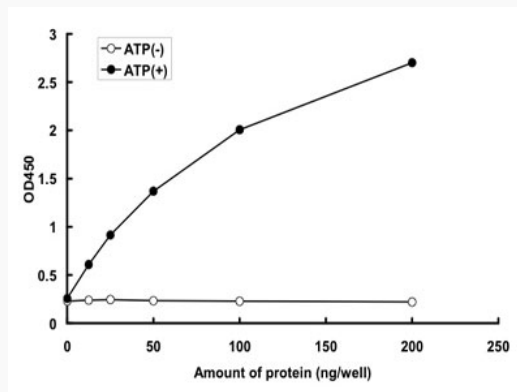
UniProt ID

P27037



Loading 1 ug protein in SDS-PAGE

Result of activity analysis



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