

## Product datasheet for **TA807401**

### Activin Receptor Type IIA (ACVR2A) Mouse Monoclonal Antibody [Clone ID: OTI8C7]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI8C7  |
| Applications:           | WB  |
| Recommended Dilution:   | WB 1:500  |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Mouse   |
| Isotype:                | IgG1  |
| Clonality:              | Monoclonal  |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 214-513 of human ACVR2A(NP_001607) produced in E.coli.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 1 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 56 kDa  |
| Gene Name:              | activin A receptor type 2A  |
| Database Link:          | <a href="#">NP_001607</a><br><a href="#">Entrez Gene 11480 Mouse</a> <a href="#">Entrez Gene 29263 Rat</a> <a href="#">Entrez Gene 92 Human</a><br><a href="#">P27037</a> |



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**Background:**

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]

**Synonyms:**

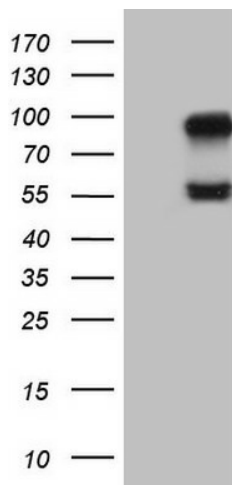
ACTRII; ACVR2

**Protein Families:**

Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ACVR2A ([RC210227], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACVR2A (1:500). Positive lysates [LY419844] (100ug) and [LC419844] (20ug) can be purchased separately from OriGene.