

Product datasheet for **TA306640**

Activin Receptor Type IA (ACVR1) Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB: 1 ug/mL |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | ACVR1 antibody was raised against a 14 amino acid synthetic peptide near the amino terminus of the human ACVR1. The immunogen is located within the first 50 amino acids of ACVR1. |
| Formulation: | PBS containing 0.02% sodium azide. |
| Concentration: | 1ug/ul |
| Purification: | Affinity chromatography purified via peptide column |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | activin A receptor type 1 |
| Database Link: | NP_001096 Entrez Gene 11477 Mouse Entrez Gene 90 Human Q04771 |



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Background:

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 and two type II receptors. Unlike ACVR1B and ACVR1C, ACVR1, also known as activin receptor-like kinase 2 (ALK2), can not transduce activin-mediated signaling, but will transduce BMP and Mullerian inhibiting substance (MIS) group signaling. It is thought that ACVR1 also inhibits activin signaling by blocking the binding of activin to its type II receptor. Recent studies indicate that genetic variation in ACVR1 is associated with polycystic ovary syndrome, suggesting that ACVR1 signaling contributes to disturbed folliculogenesis in these patients. At least four isoforms of ACVR1 are known to exist. This antibody is predicted to have no cross-reactivity to ACVR1B or ACVR1C.

Synonyms:

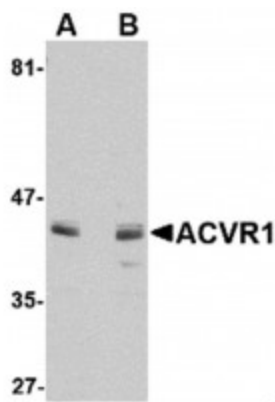
ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Protein Pathways:

Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Product images:

Western blot analysis of ACVR1 in A549 cell lysate with ACVR1 antibody at (A) 1 and (B) 2ug/ml.