

## ACVR1C Antibody

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 253943

**Unit:** 0.1 mg

### Description:

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. ACVR1C, also known as ALK7, is a type I activin receptor and plays a role in cell differentiation, growth arrest and apoptosis. ACVR1C can mediate signaling by ligands such as Nodal, GDF-1/3, activin B and activin AB, all of which can also signal through the ubiquitous activin type I receptor ACVR1B (also known as ALK4). ACVR1C is a novel marker specifically expressed during the late phase of adipocyte differentiation. ACVR1C is dispensable for mouse embryogenesis, which suggests alternative functions for this receptor in postnatal development and tissue homeostasis. ACVR1C plays an important role in regulating the functional plasticity of pancreatic islets, negatively affecting beta-cell function by mediating the effects of activin B on Ca<sup>2+</sup> signaling. This antibody is predicted to have no cross-reactivity to ACVR1 or ACVR1B.

**Isotype:** Rabbit Ig

**Applications:** E, WB

**Species Reactivity:** H, M, R

**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

**Alternate Names:** ACVR1C; Activin A receptor type IC; Activin receptor-like kinase 7; Activin receptor type 1C precursor; ACTR-IC; ACVRLK7; ALK7; ALK-7

**Accession No.:** NP\_001096

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within human ACVR1C.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.