

Rabbit ACVR1C Polyclonal Antibody | anti-ACVR1C antibody

ACVR1C Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325905	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ACVR1C; Polyclonal Antibody; ACVR1C Antibody; Activin A receptor; type IC; Activin receptor like kinase 7; Activin receptor type 1C precursor; Activin receptor type IC; Activin receptor type-1C; Activin receptor-like kinase 7; ACTR IC; ACTR-IC; ACTRIC; ACV1C_HUMAN; Acvr1c; ACVRLK7; ALK 7; ALK-7; ALK7; anti-ACVR1C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ACVR1C antibody detects endogenous levels of total ACVR1C
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	443
Applicable Applications for anti-ACVR1C antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ACVR1C
Subcellular Location	Membrane.
Tissue Specificity	Present in pancreas, heart, colon, small intestine, ovary and the hippocampus, medulla oblongata and putamen of the brain. Isoform 1, isoform 2, isoform 3 and isoform 4 are all expressed in the placenta throughout pregnancy.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (82%), Dog (100%), Chicken (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA325905 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of 293T lysate using ACVR1C antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ACVR1C antibody

Description: ACTR-IC (Activin receptor type 1C), also referred to as Activin receptor-like kinase 7 (ALK-7), is a type I serine/threonine kinase receptor. ACTA-IC contains an extracellular binding domain, an intracellular serine/threonine kinase domain preceded by a GS box and a transmembrane domain. It is expressed throughout the digestive and central nervous system and localizes to the cell surface. Four ACTR-IC transcripts are generated by alternative splicing. Transcript 1 is the functional full length receptor, transcript 2 lacks a complete receptor binding domain and transcripts 3 and 4 are soluble proteins that lack a transmembrane domain. ACTR-IC is a receptor for Activin AB, Activin B and Nodal. In pancreatic cells, ACTR-IC forms a complex with Activin receptor type IIB (ACTR-IIB). The kinase domain of ACTR-IC can induce Smad2 and Smad3 signalling pathways. In some cell lines, ACTR-IC overexpression induces apoptosis and inhibits proliferation.

Function: Serine/threonine protein kinase which forms a receptor complex on ligand binding. The receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3. Receptor for activin AB, activin B and NODAL. Plays a role in cell differentiation, growth arrest and apoptosis.

Subunit Structure: Binds the type 2 receptor protein ACVR2A.

Similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	161333835
NCBI GeneID	130399
NCBI Accession #	NP_001104501.1
NCBI GenBank Nucleotide #	NM_001111031.1
UniProt Accession #	Q8NER5; Q4ZFZ8; Q86UL1; Q86UL2; Q8TBG2
Molecular Weight	Observed: 55 kDa Predicted: 55 kDa
NCBI Official Full Name	activin receptor type-1C isoform 2
NCBI Official Synonym Full Names	activin A receptor type 1C
NCBI Official Symbol	ACVR1C
NCBI Official Synonym Symbols	ALK7; ACVRLK7
NCBI Protein Information	activin receptor type-1C
UniProt Protein Name	Activin receptor type-1C
UniProt Gene Name	ACVR1C
UniProt Synonym Gene Names	ACTR-IC; ALK-7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

