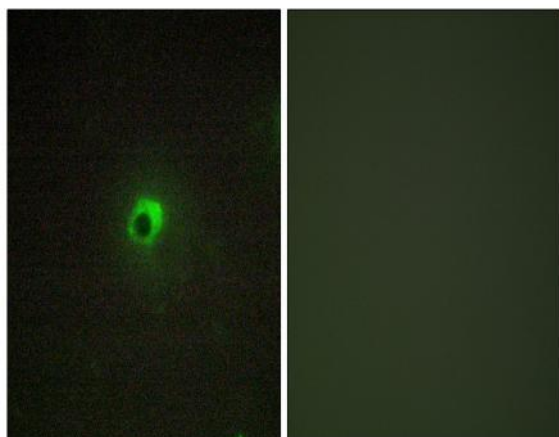


ACTR-IC Polyclonal Antibody

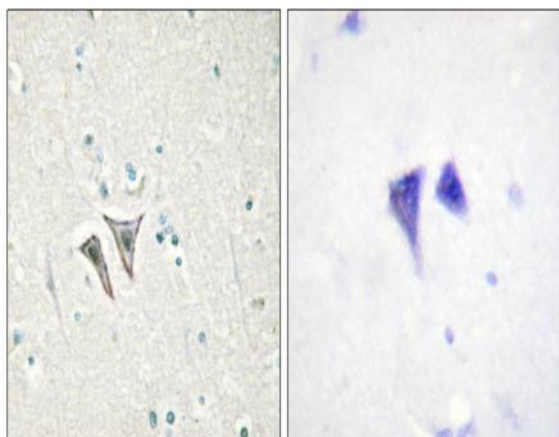
Catalog No :	YT0107
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	ACTR-IC
Fields :	>>Cytokine-cytokine receptor interaction;>>TGF-beta signaling pathway;>>Signaling pathways regulating pluripotency of stem cells
Gene Name :	ACVR1C
Protein Name :	Activin receptor type-1C
Human Gene Id :	130399
Human Swiss Prot No :	Q8NER5
Mouse Gene Id :	269275
Mouse Swiss Prot No :	Q8K348
Rat Gene Id :	245921
Rat Swiss Prot No :	P70539
Immunogen :	The antiserum was produced against synthesized peptide derived from human ACTR-1C. AA range:201-250
Specificity :	ACTR-IC Polyclonal Antibody detects endogenous levels of ACTR-IC protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	55kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Endocytosis;TGF-beta;Adherens_Junction;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;
Background :	ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008],
Function :	catalytic activity:ATP + [receptor-protein] = ADP + [receptor-protein] phosphate.,cofactor:Magnesium or manganese.,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.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.,similarity:Contains 1 GS domain.,similarity:Contains 1 protein kinase domain.,subunit:Binds the type 2 receptor protein ACVR2A.,tissue specificity:Present in pancreas, heart, colon, small intestine, ovary and
Subcellular Location :	Membrane ; Single-pass type I membrane protein .
Expression :	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.

Products Images



Immunofluorescence analysis of COS7 cells, using ACTR-1C Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ACTR-1C Antibody. The picture on the right is blocked with the synthesized peptide.