

ACVR1C / ALK7 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12646**Specification**

ACVR1C / ALK7 Antibody (N-Terminus) - Product Information

Application	WB, IHC-P
Primary Accession	Q8NER5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

ACVR1C / ALK7 Antibody (N-Terminus) - Additional Information**Gene ID** 130399**Other Names**

Activin receptor type-1C, 2.7.11.30, Activin receptor type IC, ACTR-IC, Activin receptor-like kinase 7, ALK-7, ACVR1C (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=18123)
HGNC:18123

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ACVR1C / ALK7 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ACVR1C / ALK7 Antibody (N-Terminus) - Protein Information**Name** ACVR1C ([HGNC:18123](#))**Function**

Serine/threonine protein kinase which forms a receptor complex on ligand binding. The receptor complex consists 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, activin E and NODAL. Upon NODAL binding, activation results in increased apoptosis and reduced proliferation through suppression of AKT signaling and the activation of Smad2-dependent signaling pathway in pancreatic beta-cells, trophoblasts, epithelial or neuronal cells (PubMed:[15531507](http://www.uniprot.org/citations/15531507), PubMed:[15150278](http://www.uniprot.org/citations/15150278)). Acts as a positive regulator for macrophage activation partially through down-regulation of PPARG expression (By similarity).

Cellular Location

Membrane; Single- pass type I membrane protein

Tissue Location

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.

Volume

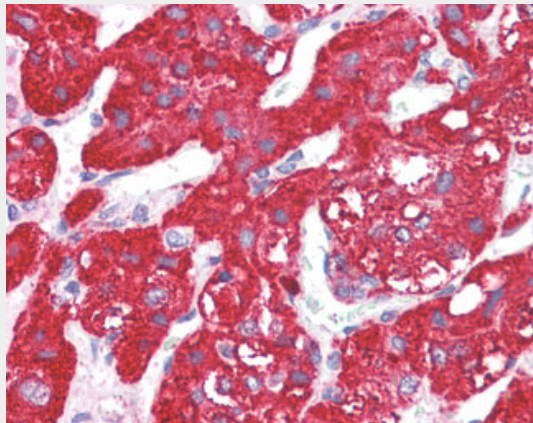
50 μ l

ACVR1C / ALK7 Antibody (N-Terminus) - Protocols

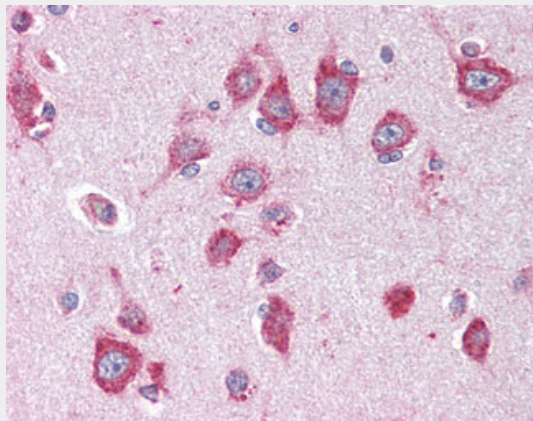
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACVR1C / ALK7 Antibody (N-Terminus) - Images



Anti-ACVR1 antibody IHC of human adrenal.



Anti-ACVR1 antibody IHC of human brain, cortex.

ACVR1C / ALK7 Antibody (N-Terminus) - Background

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.

ACVR1C / ALK7 Antibody (N-Terminus) - References

Bondestam J., et al. *Cytogenet. Cell Genet.* 95:157-162(2001).
Roberts H.J., et al. *Biol. Reprod.* 68:1719-1726(2003).
Hillier L.W., et al. *Nature* 434:724-731(2005).
Xu G., et al. *J. Clin. Endocrinol. Metab.* 89:5523-5534(2004).
Greenman C., et al. *Nature* 446:153-158(2007).