

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

Application	IHC
Primary Accession	Q8NER5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa KDa

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 ([HGNC:18123](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=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 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.

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.

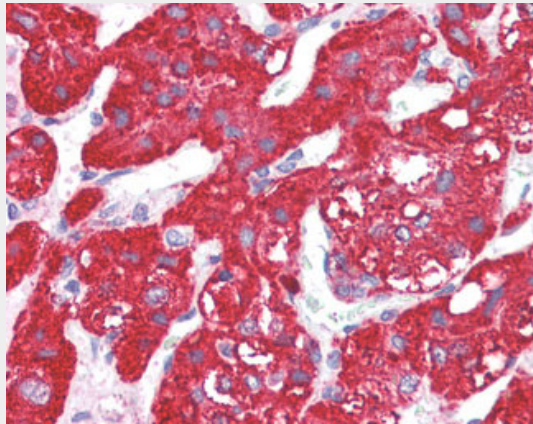
Volume
50 μ l

ACVR1C / ALK7 Antibody (N-Terminus) - Protocols

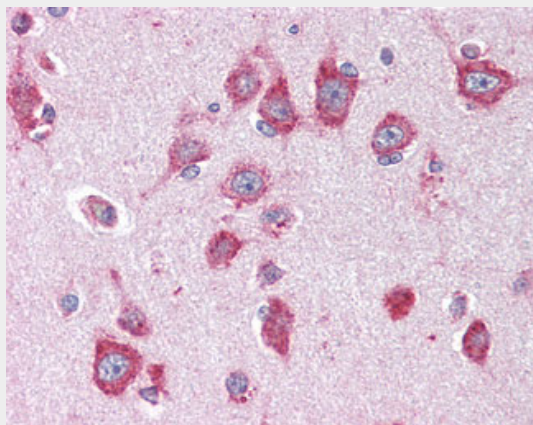
Provided below are standard protocols that you may find useful for product applications.

- [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

Bondeham 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).