

Anti-ALK7 Reference Antibody (Acceleron patent anti-ALK7)

Catalog # APR11406

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q8NER5
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1-LALA-PG-REM
Calculated MW	54871

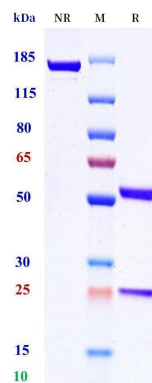
Additional Information

Target/Specificity	ALK7
Expression system	CHO

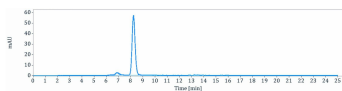
Protein Information

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 , PubMed: 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.

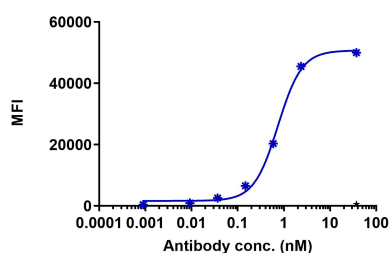
Images



Anti-ALK7 Reference Antibody (Acceleron patent anti-ALK7) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-ALK7 Reference Antibody (Acceleron patent anti-ALK7) is 100%, determined by SEC-HPLC.



PLVX-puro-ALK7-FL cell line were stained with Acceleron patent anti-ALK7 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 0.7448 nM.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.