10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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 |

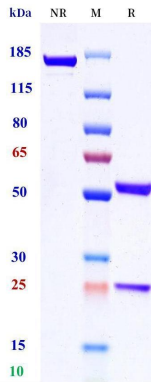
## Additional Information

| | |
|---|---|
| **Target/Specificity** | ALK7 |
| **Expression system** | CHO |

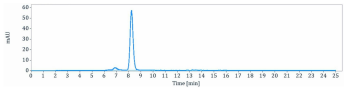
## Protein Information

| | |
|---|---|
| **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. |

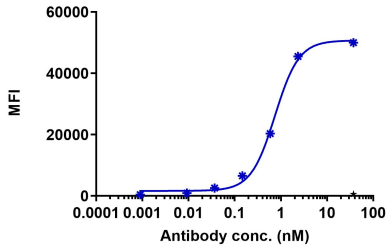
## Images




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'.