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# Anti-ACVR1C / ALK7 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18293

## Product Information

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| **Application** | WB, IHC-P |
| **Primary Accession** | Q8NER5 |
| **Predicted** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Calculated MW** | 54871 |

## Additional Information

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| **Gene ID** | 130399 |
| **Alias Symbol** | ACVR1C |
| **Other Names** | ACVR1C, Activin receptor-like kinase 7, ACTR-IC, Activin receptor type IC, ACVRLK7, Activin receptor type-1C, ALK7, Activin A receptor, type IC, ALK-7 |
| **Target/Specificity** | Human ACVR1C / ALK7 |
| **Reconstitution & Storage** | Affinity purified |
| **Precautions** | Anti-ACVR1C / ALK7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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 |

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| **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. |

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