ABclonal www.abclonal.com

Recombinant Rat ALK-1/ACVRL1 Protein

Catalog No.: RP01925 Recombinant

Sequence Information

Species Gene ID Swiss Prot Rat 25237 P80203

Tags

C-hFc

Synonyms

Acvrl1; Acvrlk1; Serine/threonine-protein kinase receptor R3; SKR3; 2.7.11.30; TGF-B superfamily receptor type I; TSR-I

Product Information

Source Purification HEK293 cells > 90% by SDS-PAGE.

Calculated MW Observed MW

36.97 kDa 45-60 kDa

Endotoxin

 $< 0.01 \text{EU/}\mu\text{g}$ of the protein by LAL method

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

<u>a</u>		400-999-6126
\bowtie		cn.market@abclonal.com.cn
•	T	www.abclonal.com.cn

Background

ALK-1/ACVRL1, Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. May bind activin as well.

Basic Information

Description

Recombinant Recombinant Rat ALK-1/ACVRL1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys21-Ala118) of Rat ALK-1/ACVRL1 (Accession #NP 071886.1) fused with a hFc tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Rat ALK-1(Catalog #RP01925) at 4 μ g/mL (100 μ L/well) can bind Human ACVR2B (Catalog #RP00153) with a linear range of 20-989.42 ng/mL.

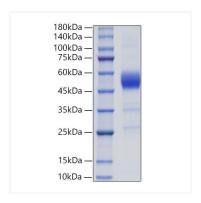
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat ALK-1/ACVRL1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-60 kDa.