Recombinant Human Activin RIIB/ACVR2B Protein

Catalog No.: RP00153

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Sequence Information

Species
Human

Gene ID
93

Swiss Prot
Q13705

Tags
C-hFc&His

Synonyms
ACVR2B,ACTRIIB,ActR-IIB,HTX4

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
40.12 kDa

Observed MW
55-70 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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.

Background

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine /threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.

Basic Information

Description
Recombinant Human Activin RIIB/ACVR2B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser19-Thr134) of human ACVR2B/Activin RIIB (Accession #NP_001097.2) fused with an Fc, 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human ACVR2B at 1 μg/mL (100 μL/well) can bind Human BMPRIA with a linear range of 0.5-62.5 ng/mL.
2.Measured by its binding ability in a functional ELISA.Immobilized Human CD105 at 1 μg/mL (100 μL/well) can bind Human ACVR2B with a linear range of 0.49-43.03 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

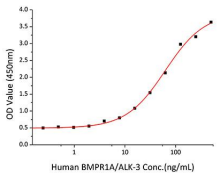
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

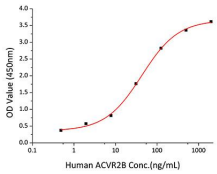
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Please visit http://abclonal.com for a complete listing of recommended products.

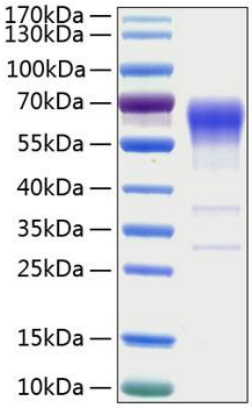
Validation Data



Immobilized Human ACVR2B at 1 μg/mL (100 μL/well) can bind Human BMPRIA with a linear range of 0.5-62.5 ng/mL.



Immobilized Human CD105 at 1μg/mL (100 μL/well) can bind Human ACVR2B with a linear range of 0.49-43.03 ng/mL.



Recombinant Human Activin RIIB/ACVR2B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.