abcam

Product datasheet

Recombinant Human Activin Receptor Type IIB/ACVR2B protein ab114488

1 Image

Description

Product name	Recombinant Human Activin Receptor Type IIB/ACVR2B protein
Expression system	Wheat germ
Accession	Q13705
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	RGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHC YASWANSSGTI ELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNF CNERFTHLPEAG
Predicted molecular weight	37 kDa including tags
Amino acids	21 to 120
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab114488** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	This product was previously labelled as Activin Receptor Type IIB.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function

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. Receptor for activin A, activin B and inhibin A.

Involvement in disease

Defects in ACVR2B are the cause of visceral heterotaxy autosomal type 4 (HTX4) [MIM:613751]. A form of visceral heterotaxy, a complex disorder due to disruption of the normal left-right asymmetry of the thoracoabdominal organs. It results in an abnormal arrangement of visceral organs, and a wide variety of congenital defects. Clinical features of visceral heterotaxy type 4 include dextrocardia, right aortic arch and a right-sided spleen, anomalies of the inferior and the superior vena cava, atrial ventricular canal defect with dextro-transposed great arteries, pulmonary stenosis, polysplenia and midline liver.

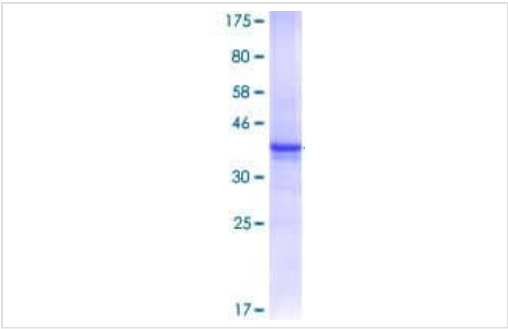
Sequence similarities

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.
Contains 1 protein kinase domain.

Cellular localization

Membrane.

Images



SDS-PAGE - Recombinant Human Activin Receptor Type IIB/ACVR2B protein (ab114488)

12.5% SDS-PAGE showing ab114488 at approximately 36.63kDa stained with Coomassie Blue.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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