

Product datasheet

Recombinant human Activin Receptor Type IIA/ACVR2A protein (Fc Chimera Active) ab219871

3 Images

Description

Product name	Recombinant human Activin Receptor Type IIA/ACVR2A protein (Fc Chimera Active)	
Biological activity	Immobilized Human Activin A, Tag Free at 10 µg/mL (100 µL/well) can bind ab219871 with a linear range of 0.08-0.625 µg/mL.	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	HEK 293 cells	
Accession	P27037	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	AILGRSETQECLFFNANWEKDRTNQGTGVEPCYGDKDK RRHCFATWKNISG SIEIVKQGCWLDDINCYDRTDCVEKKDSPEVYFCCE GNMCNEKFSYFPE MEVTQPTSNPVTPKP	
Predicted molecular weight	40 kDa including tags	
Amino acids	20 to 134	
Additional sequence information	Extracellular domain with a human IgG1 Fc tag at the C-terminus.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab219871** in the following tested applications.

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

Applications	SDS-PAGE
	Functional Studies
Form	Lyophilised
Additional notes	This product was previously labelled as Activin Receptor Type IIA

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.61% Tris, 5% Trehalose, 0.75% Glycine, Sodium chloride, L-Arginine

Lyophilized from 0.22 µm filtered solution.

5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

It is recommended to reconstitute the lyophilized product with sterile deionized water to a final concentration of 1 mg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage. Storage: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).

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.

Sequence similarities

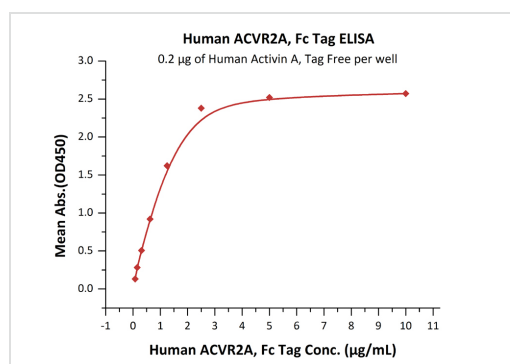
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

Contains 1 protein kinase domain.

Cellular localization

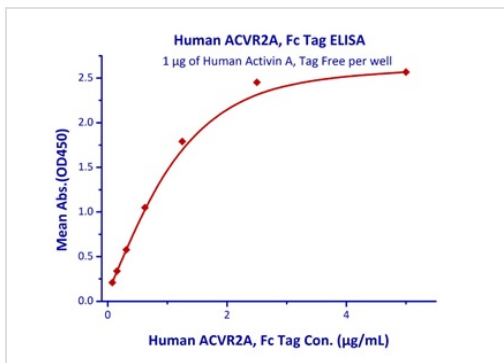
Membrane.

Images



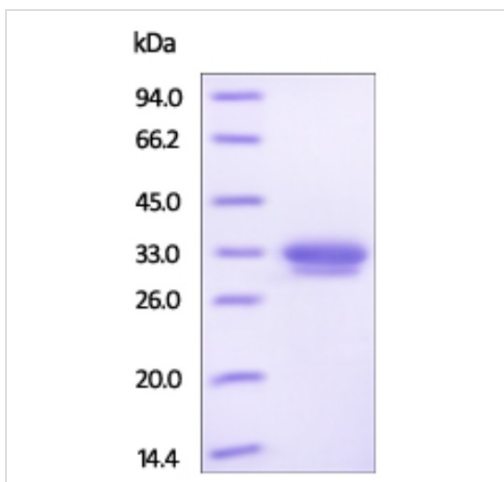
Immobilized Human Activin A (Tag Free) at 2 µg/mL (100 µL/well) can bind Human ACVR2A (Fc Tag) with a linear range of 0.08-1.25 µg/mL (QC tested).

Functional Studies - Recombinant human Activin Receptor Type IIA/ACVR2A protein (Fc Chimera Active) (ab219871)



Immobilized Human Activin A, Tag Free at 10 µg/mL (100 µL/well) can bind ab219871 with a linear range of 0.08-0.625 µg/mL.

Functional Studies - Recombinant human Activin Receptor Type IIA/ACVR2A protein (Fc Chimera Active) (ab219871)



ab219871 on SDS-PAGE under reducing conditions. The gel was stained overnight with Coomassie Blue. The protein migrates as 30-33 kDa under reducing conditions due to different glycosylation.

SDS-PAGE - Recombinant human Activin Receptor Type IIA/ACVR2A protein (Fc Chimera Active) (ab219871)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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