

Recombinant human BMPR1A protein ab201369

[2 Images](#)

Description

Product name	Recombinant human BMPR1A protein
Purity	> 95 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>NM_004329</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	66 kDa including tags
Amino acids	187 to 532
Modifications	mutated Q233D
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab201369** 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	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF This product is an active protein and may elicit a biological response in vivo, handle with caution.
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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 BMP2, BMP4, GDF5 and GDF6. Positively regulates chondrocyte differentiation through GDF5 interaction. Mediates induction of adipogenesis by GDF6.

Tissue specificity

Highly expressed in skeletal muscle.

Involvement in disease

Juvenile polyposis syndrome

Polyposis syndrome, mixed hereditary 2

A microdeletion of chromosome 10q23 involving BMPR1A and PTEN is a cause of chromosome 10q23 deletion syndrome, which shows overlapping features of the following three disorders: Bannayan-Zonana syndrome, Cowden disease and juvenile polyposis syndrome.

Sequence similarities

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

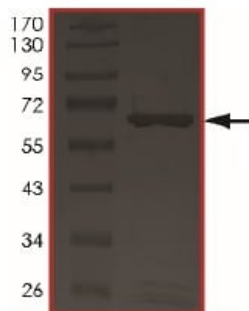
Contains 1 GS domain.

Contains 1 protein kinase domain.

Cellular localization

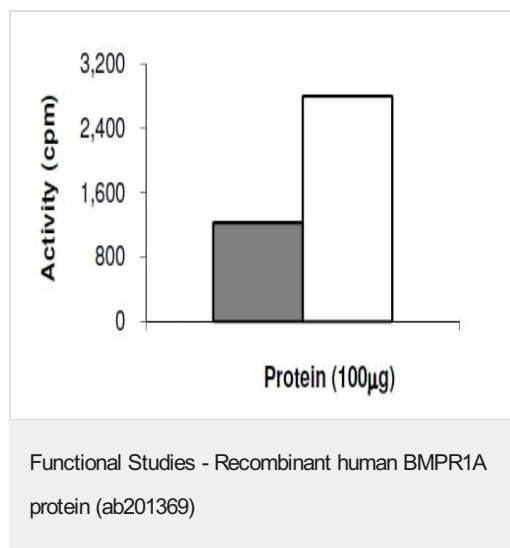
Membrane.

Images



SDS-PAGE analysis of ab201369

SDS-PAGE - Recombinant human BMPR1A protein
(ab201369)



Specific activity of ab201369 with and without TGFBR1 peptide

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

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