abcam

Product datasheet

Recombinant human BMPR2 protein ab126926

画像数 5

製品の詳細

製品名	Recombinant human BMPR2 protein
生理活性	The specific activity of ab126926 was determined to be 14 nmol/min/mg.
精製度	> 75 % Densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	Q13873
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	115 kDa including tags
領域	174 to 1038
タグ	His tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab126926** in the following tested applications.

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

アプリケーション	SDS-PAGE Functional Studies Western blot
製品の状態	Liquid
備考	**ab64311** (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole

Constituents: 0.002% PMSF, 0.81% Sodium phosphate, 0.0038% DTT, 25% Glycerol (glycerin, glycerine), 1.76% Sodium chloride

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

関連情報

機能

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. Binds to BMP-7, BMP-2 and, less efficiently, BMP-4. Binding is weak but enhanced by the presence of type I receptors for BMPs.

組織特異性

Highly expressed in heart and liver.

関連疾患

Defects in BMPR2 are the cause of primary pulmonary hypertension (PPH1) [MIM:178600]. PPH1 is a rare autosomal dominant disorder characterized by plexiform lesions of proliferating endothelial cells in pulmonary arterioles. The lesions lead to elevated pulmonary arterial pression, right ventricular failure, and death. The disease can occur from infancy throughout life and it has a mean age at onset of 36 years. Penetrance is reduced. Although familial PPH1 is rare, cases secondary to known etiologies are more common and include those associated with the appetite-suppressant drugs.
Defects in BMPR2 are a cause of pulmonary venoocclusive disease (PVOD) [MIM:265450]. PVOD is a rare form of pulmonary hypertension in which the vascular changes originate in the small pulmonary veins and venules. The pathogenesis is unknown and any link with PPH1 has been speculative. The finding of PVOD associated with a BMPR2 mutation reveals a possible pathogenetic connection with PPH1.

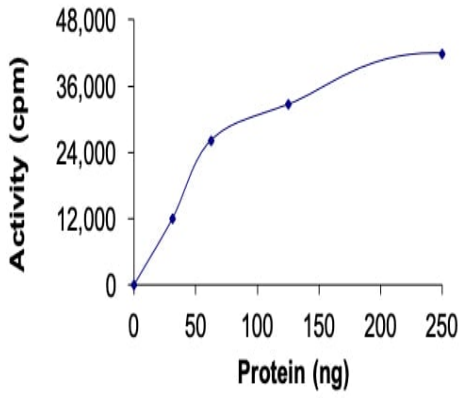
配列類似性

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

細胞内局在

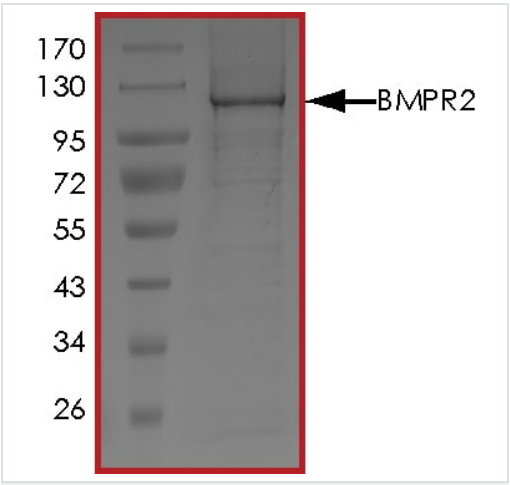
Membrane.

画像



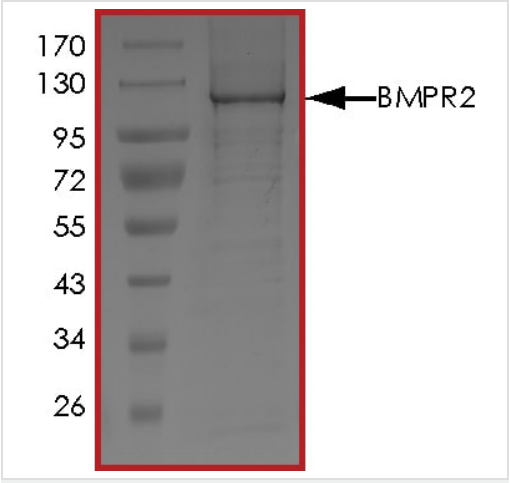
Functional Studies - Recombinant human BMPR2 protein (ab126926)

The specific activity of BMPR2 (ab126926) was determined to be 11.9 nmol/min/mg as per activity assay protocol



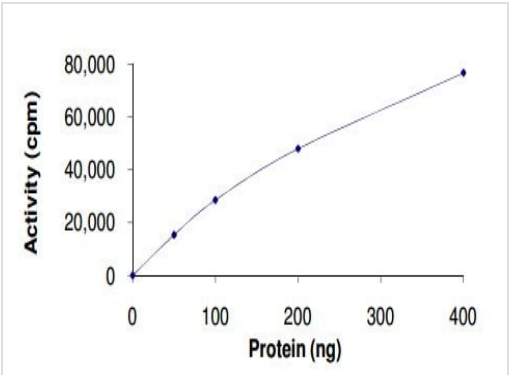
SDS-PAGE - Recombinant human BMPR2 protein (ab126926)

SDS PAGE analysis of ab126926



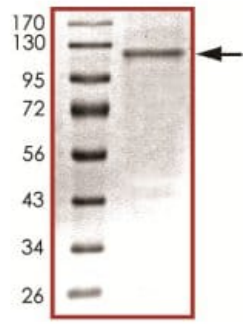
SDS-PAGE - Recombinant human BMPR2 protein (ab126926)

SDS PAGE analysis of ab126926



Functional Studies - Recombinant human BMPR2 protein (ab126926)

The specific activity of ab126926 was determined to be 14 nmol/min/mg.



SDS-PAGE - Recombinant human BMPR2 protein (ab126926)

SDS-PAGE analysis of ab126926.

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