

Recombinant Raf1 (mutated Y340E + Y341E) protein (Active) ab62292

画像数 2

製品の詳細

製品名	Recombinant Raf1 (mutated Y340E + Y341E) protein (Active)
生理活性	The specific activity of RAF1 was determined to be ~6,000 nmol/min/mg in a coupled assay as per antibody assay protocol.
精製度	> 80 % SDS-PAGE. Purity >80% as determined by SDS-PAGE and Coomassie blue staining. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	P04049-1
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
予測される分子量	63 kDa including tags
領域	306 to 648
修飾	mutated Y340E + Y341E
タグ	GST tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab62292** 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	Western blot
	Functional Studies

製品の状態	Liquid
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前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.00385% DTT, 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 0.31% Glutathione, 0.0029% EDTA, 0.0017% PMSF
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能

Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. Part of the Ras-dependent signaling pathway from receptors to the nucleus. Protects cells from apoptosis mediated by STK3.

組織特異性

In skeletal muscle, isoform 1 is more abundant than isoform 2.

関連疾患

Defects in RAF1 are the cause of Noonan syndrome type 5 (NS5) [MIM:611553]. Noonan syndrome (NS) is a disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis. It is a genetically heterogeneous and relatively common syndrome, with an estimated incidence of 1 in 1000-2500 live births.

Defects in RAF1 are the cause of LEOPARD syndrome type 2 (LEOPARD2) [MIM:611554]. LEOPARD syndrome is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and deafness.

配列類似性

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 RBD (Ras-binding) domain.

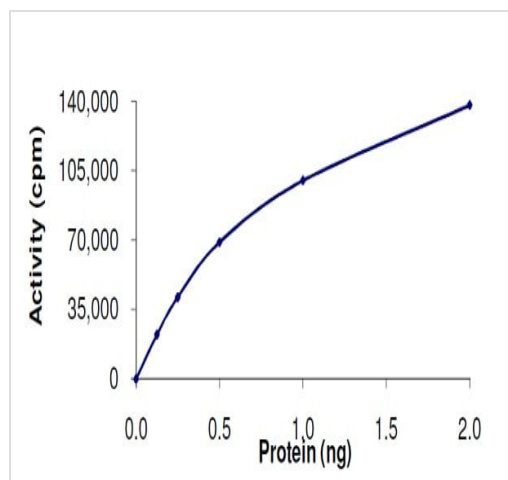
翻訳後修飾

Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation at Thr-269 increases its kinase activity. Phosphorylation at Ser-259 induces the interaction with YWHAZ and inactivates kinase activity. Dephosphorylation of Ser-259 by the complex containing protein phosphatase 1, SHOC2 and M-Ras/MRAS relieves inactivation, leading to stimulate RAF1 activity.

細胞内局在

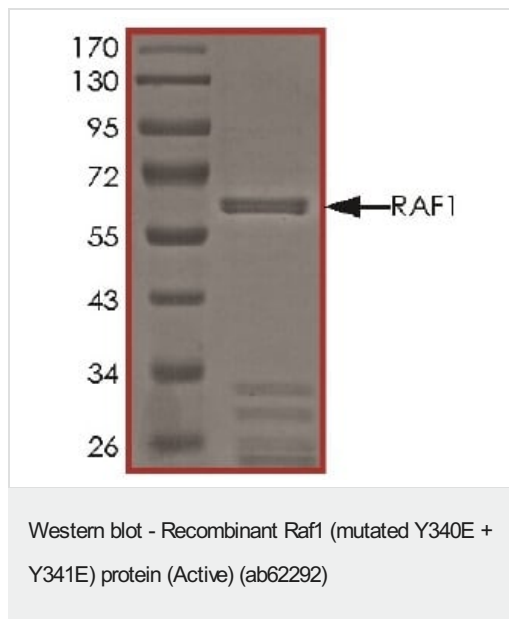
Cytoplasm. Cell membrane. Colocalizes with RGS14 and BRAF in both the cytoplasm and membranes.

画像



ab62292 Kinase assay plot

Functional Studies - Recombinant Raf1 (mutated Y340E + Y341E) protein (Active) (ab62292)



Recombinant Raf1 (mutated Y340E + Y341E) protein (Active)
(ab62292) + RAF1

Predicted band size: 63 kDa

Observed band size: 63 kDa

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

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