

Product datasheet

Recombinant Human FGD2 protein ab165971

1 Image

Overview

Product name	Recombinant Human FGD2 protein
Protein length	Full length protein

Description

Nature Recombinant

Source Wheat germ

Amino Acid Sequence

Species Human

Sequence

MKGASEEKLASVSNLVTVFENSRTPEAAPRGHRLED
 VHHRPECRPPESPG
 PREKTNVGEAVGSEPRTVSRRYLNSLKNKLSSEAWR
 KSCQPVTLSGSGTQ
 EPEKKIQELLETEQAYVARLHLLDQVFFQELLKTARS
 SKAFPEDVVRVI
 FSNISSYQFHSQFFLPELQRRLLDDWTANPRIGDVIQKL
 APFLKMYSEYV
 KNFERAAELLATWTDKSPLFQEVLTRIQSSEASGSLTL
 QHHMLEPVQRIP
 RYELLLKEYIQKLPAPDQADAQKALDMIFSAAQHSN
 AAITEMERLQDL
 WEVYQRLGLEDDIVDPSNTLLREGPVLKISFRRNDPME
 RYLFLFNNMLLY
 CVPRVIQVGAQFQVRTRIDVAGMKVRELMDAEFPHSF
 LVSGKQRTLELQA
 RSQEEMISWMQAFQAAIDQIEKRNETFKAAAQGPEGDI
 QEQLQSEELGL
 RAPQWVRDKMVTMCMRCQEPFNALTRRRHHCRACG
 YVVCARCSDYRAELK
 YDDNRPNRVCLHCYAFLTGNVLPEAKEDKRRGILEKG
 SSATPDQSLMCSF
 LQLIGDKWKGSGPRGWCVIPRDDPLVLYVYAAPQDMR
 AHTSIPLLGYQVT
 VGPQGDPRVFQLQQSGQLYTFKAETEELKGRWVKAM
 ERAASGWSPSPVND GDLS

Amino acids	1 to 655
Tags	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab165971** in the following tested applications.

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

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

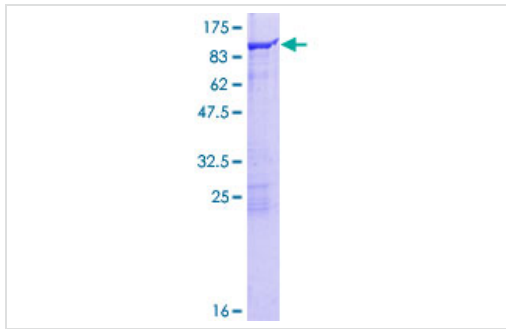
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function	Activates CDC42, a member of the Ras-like family of Rho-and Rac proteins, by exchanging bound GDP for free GTP. Activates JNK1 via CDC42 but not RAC1. Binds to phosphatidylinositol 4,5-bisphosphate, phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 5-monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate.
Sequence similarities	Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains.
Domain	The FYVE-type zinc-finger is necessary for early endosome localization. Recruitment to endosomal membranes via this domain requires the presence of phosphatidylinositol 3-phosphate or other phosphatidylinositides. The PH domain is necessary for localization to the ruffle membrane. Recruitment to ruffle membrane occurs through binding of phosphoinositides by the PH domain. This domain also contributes to the lipid-binding properties of the protein. The DH domain is necessary for its ability to activate JNK1 via CDC42.
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm. Nucleus. Early endosome. Early endosome membrane. Cell projection > ruffle membrane. Recruitment to the endosome and ruffle membrane requires the presence of phosphoinositides.

Images



ab165971 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human FGD2 protein
(ab165971)

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