

## Product datasheet

# Recombinant Human FGD2 protein ab165971

1 Image

### Overview

<b>Product name</b>	Recombinant Human FGD2 protein
<b>Protein length</b>	Full length protein

### Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ

### Amino Acid Sequence

<b>Species</b>	Human
<b>Sequence</b>	<p>MKGASEEKLASVSNLVTVFENSRTPEAAPRGHRLEDVHHRPECRPPESPG            PREKTNVGEAVGSEPRTVSRRLNSLKNKLSSEAWRKSCQPVTLSGSGTQ            EPEKKIVQELLETEQAYVARLHLLDQVFFQELLKTARSSKAFPEDVVRVI            FSNISSIYQFHSQFFLPELQRRLLDDWTANPRIGDVIQKLAPFLKMYSEYV            KNFERAAELLATWTDKSPLFQEVLTRIQSSEASGSLTLQHHMLEPVQRIP            RYELLLKEYIQKLPAAQPDQADAQKALDMIFSAAQHSNAAITEMERLQDL            WEVYQRLGLEDDVDPSNTLLREGPVLKISFRRNDPMERYLFLFNMLLY            CVPRVIQVGAQFQVRTRIDVAGMKVRELMDAEFPHSFLVSGKQRTLELQA            RSQEEMISWMQAFQAAIDQIEKRNETFKAAAQGPEGDIQEQLQSEELGL            RAPQWVRDKMVTMCMRCQEPFNALTRRRHHCRCAGWVCARCSDYRAELK            YDDNRPNRVCLHCYAFLTGNVLPKEDKRRGILEKGSSATPDQSLMCSF            LQLIGDKWKGSGPRGWCVIPRDDPLVLYYAAPQDMRAHTSIPLLGYQVT            VGPQGDRVFQLQQSGQLYTFKAE TEELKGRWVKAMERAASGWSPSWPND            GDLSD</p>
<b>Amino acids</b>	1 to 655
<b>Tags</b>	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.

<b>Applications</b>	ELISA
	Western blot

<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

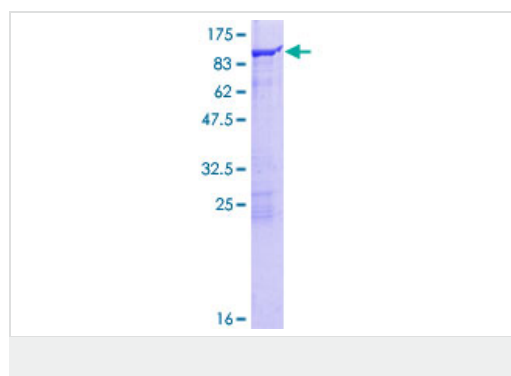
## Preparation and Storage

<b>Stability and Storage</b>	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

<b>Function</b>	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.
<b>Sequence similarities</b>	Contains 1 DH (DBL-homology) domain. Contains 1 FYVE-type zinc finger. Contains 2 PH domains.
<b>Domain</b>	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.
<b>Cellular localization</b>	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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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