

Product datasheet

Recombinant Human FGD2 protein ab165971

1 Image

Description

|                          |                                |
|--------------------------|--------------------------------|
| <b>Product name</b>      | Recombinant Human FGD2 protein |
| <b>Expression system</b> | Wheat germ                     |
| <b>Protein length</b>    | Full length protein            |
| <b>Animal free</b>       | No                             |
| <b>Nature</b>            | Recombinant                    |
| <b>Species</b>           | Human                          |

|                 |   |
|-----------------|---|
| <b>Sequence</b> | <p>MKGASEEKLASVSNLVTVFENSRTPEAAPRGHRLD<br/> VHHRPECRPPESPG<br/> PREKTNVGEAVGSEPRTVSRRYLNSLKNKLSSEAWR<br/> KSCQPVTLSGSGTQ<br/> EPEKKIVQELLETEQAYVARLHLLDQVFFQELLKTARS<br/> SKAFPEDVVRVI<br/> FSNISSIQFHSQFFPELQRRLLDDWTANPRIGDVIQKL<br/> APFLKMYSEYV<br/> KNFERAAELLATWTDKSPLEVLTRIQSSEASGSLTL<br/> QHHMLEPVQRIP<br/> RYELLLKEYIQKLPAPDQADAQKALDMIFSAAQHSN<br/> AAITEMERLQDL<br/> WEVYQRLGLEDDIVDPSNTLLREGPVLKISFRRNDPME<br/> RYLFLFNMLLY<br/> CVPRVIQVGAQFQVRTRIDVAGMKVRELMDAEFPHSF<br/> LVSGKQRTLELQA<br/> RSQEEMISWMQAFQAAIDQIEKRNFTKAAAQGPEGDI<br/> QEQLQSEELGL<br/> RAPQWVRDKMVTMCMRCQEPFNALTRRRHHCRACG<br/> YVVCARCSDYRAELK<br/> YDDNRPNRVCLHCYAFLTGNVLPEAKEDKRRGILEKG<br/> SSATPDQSLMCSF<br/> LQLIGDKWKGSGPRGWCVIPRDDPLVLYYAAPQDMR<br/> AHTSIPLLGYQVT<br/> VGPQGDPRVFQLQQSGQLYTFKAETEELKGRWVKAM<br/> ERAASGWSPSPWPNDDLS</p> |
|-----------------|---|

|                    |                    |
|--------------------|--------------------|
| <b>Amino acids</b> | 1 to 655           |
| <b>Tags</b>        | GST tag N-Terminus |

## Specifications

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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**

## Preparation and Storage

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**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

## General Info

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**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.

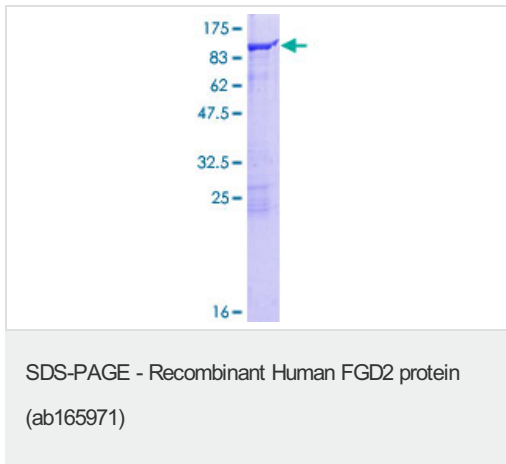
**Sequence similarities** Contains 1 DH (DBL-homology) domain.  
Contains 1 FYVE-type zinc finger.  
Contains 2 PH domains.

**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

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

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

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