

Recombinant Human FGD4 Protein, GST-tagged

Cat. No. FGD4-4092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FGD4 full-length ORF (BAB71413.1, 1 a.a. - 766 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a protein that is involved in the regulation of the actin cytoskeleton and cell shape. This protein contains an actin filament-binding domain, which together with its Dbl homology domain and one of its pleckstrin homology domains, can form microspikes. This protein can activate MAPK8 independently of the actin filament-binding domain, and it is also involved in the activation of CDC42 via the exchange of bound GDP for free GTP. The activation of CDC42 also enables this protein to play a role in mediating the cellular invasion of <i>Cryptosporidium parvum</i> , an intracellular parasite that infects the gastrointestinal tract. Mutations in this gene can cause Charcot-Marie-Tooth disease type 4H (CMT4H), a disorder of the peripheral nervous system. [provided by RefSeq]
Molecular Mass	113 kDa
AA Sequence	MEEIKPASASCVSKEKPSKVSDLISRFEGGSSLSNYSDLKKESAVNLNAPRTPGRHG LTTTPQQKLLSQHLPQRQGNDADKTQGAQTCVANGVMAAQNQMECEEEKAATLSS DTSIQASEPLLDTHIVNGERDETATAPASPTTDS CDGNASDSSYRTPGIGPVLPLEER GAETETKVQERENGESPLELEQLDQHHEMKETNEQKLHKIANELLTERAYVNRLDL

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LDQVFYCKLLEEANRGSFPAEMVKNKIFSNISSINAFHSKFLLEPELEKRMQEWETTPRI
 GDILQKLAPFLKMYGEYVKGFDNAMELVKNMTERIPQFKSVVEEIQKQKICGSLTLQ
 HHMLEPVQRIPRYEMLLKDYLRLPPDSLWDNDAAKSLEIISTAASHSNSAIRKMENL
 KKLLEIYEMLGEEEDIVNPSNELIKEGQILKLAARNTSAQERYLFLFNNMLLYCVPKFS
 LVGSKFTVRTRVGIDGMKIVETQNEEYPHTFQVSGKERTLELQASSAQDKEEWIKAL
 QETIDAFHQRHETFRNAIAKDNDIHSEVSTAELGKRAPRWIRDNEVTMCMCKKEPFN
 ALTRRRHHCRACGYVVCWKCSYKAQLEYDGGKLSKVCKDCYQIISGFTDSEEKKR
 KGILEIESAEVSGNSVCSFLQYMEKSKPWQKAWCVIPKQDPLVLYMYGAPQDVRA
 QATIPLLGYVDEMPSADLPHSFKLTQSKSVHSFAADSEELKQKWLKVILLAVTGET
 PGGPNEHPATLDDHPEPKKKSEC

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

FGD4 FYVE, RhoGEF and PH domain containing 4 [Homo sapiens]

Official Symbol

FGD4

Synonyms

FGD4; FYVE, RhoGEF and PH domain containing 4; FGD1 family, member 4; FYVE, RhoGEF and PH domain-containing protein 4; CMT4H; frabin; FRABP; ZFYVE6; FGD1-related F-actin-binding protein; actin-filament binding protein frabin; zinc finger

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FYVE domain-containing protein 6; FLJ34370; FLJ42663; MGC57222;
DKFZp313E1818; DKFZp434K1572;

Gene ID 121512

mRNA Refseq NM_139241

Protein Refseq NP_640334

MIM 611104

UniProt ID Q96M96

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