

Recombinant Human FGD4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FGD4-2306H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FGD4 MS Standard C13 and N15-labeled recombinant protein (NP_640334) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	86.4 kDa
AA Sequence	MEEIKPASASCVSKEKPSKVSDLISRFEGGSSLSNYSDLKKESAVNLTAPRTPGRHG LTTTPQQKLLSQHLPQRQGNDDTKTQGAQTCVANGVMAAQNQMECEEEKAATLSS

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DTSIQASEPLLDMHIVNGERDETATAPASPTTDCDGNASDSSYRTPGIGPVLPLEE
 RGAETETKVQERENGESPLELEQLDQHHEMKETNEQKLHKIANELLTERAYVNRL
 DLLDQVFYCKLLEEANRGSFPAEMVNKIFSNISSINAFHSKFLLEPELEKRMQEWETTP
 RIGDILQKLAPFLKMYGEYVKGFNAMELVKNMTERIPQFKSVVEEIQKQKICGSLTL
 QHHMLEPVQRIPTYEMLLKDYLRKLPPDSLWDNDKKSLEIISTAASHSNSAIRKME
 NLKKLLEIYEMLGEEEDIVNPSNELIKEGQILKLAARNTSAQERYLFLFNNMLLYCVPK
 FSLVGSKFTVRTRVIGIDGMKIVETQNEEYPHTFQVSGKERTLELQASSAQDKEEWIK
 ALQETIDAFHQHETFRNAIAKDNDIHSEVSTAELGKRAPRWIRDNEVTMCMCKCEP
 FNALTRRRHHCRACGYVVCWKCSQDYKAQLEYDGGKLSKVCKDCYQIISGFTDSEEK
 KRKGILEIESAEVSGNSVVCFLQYMEKSKPWQKAWCVIPKQDPLVLYMYGAPQDV
 RAQATIPLLGYVVDEMPRSADLPHSFKLTQSKSVHSFAADSEELKQKWLKVILLAVT
 GETPGGPNEHPATLDDHPEPKKKSECTRTTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FGD4 FYVE, RhoGEF and PH domain containing 4 [Homo sapiens (human)]

Official Symbol FGD4

Synonyms FGD4; FYVE, RhoGEF and PH domain containing 4; FGD1 family, member 4; FYVE,

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RhoGEF and PH domain-containing protein 4; CMT4H; frabin; FRABP; ZFYVE6;
 FGD1-related F-actin-binding protein; actin-filament binding protein frabin; zinc finger
 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](#)

SDS-PAGE

