

Recombinant Full Length Human FYCO1 Protein, Flag tagged

Cat. No. FYCO1-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human FYVE and coiled-coil domain containing 1 (FYCO1) with Flag tag was expressed in HEK293.
Species	Human
Source	HEK293T
ProteinLength	1-1478 aa
Description	The gene encodes a Rab7 adapter protein that is implicated in the microtubule transport of autophagosomes. The encoded protein contains a RUN domain, a FYVE-type zinc finger domain, and Golgi dynamics (GOLD) domain. The encoded protein plays a role in microtubule plus end-directed transport of autophagic vesicles through interactions with the small GTPase Rab7, phosphatidylinositol-3-phosphate (PI3P), the autophagosome marker LC3, and the kinesin KIF5. Mutations in this gene are associated with inclusion body myositis (IBM) and autosomal recessive congenital cataracts (CATC2).
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10 % glycerol
AASequence	MASTNAESQLQRIIRDLQDAVTELSKEFQEAGEPITDDSTSLHKFSYKLEYLLQFDQK EKATLLGNKKDYWDYFCACLAKVKGANDGIRFVKISIELRTSLGKGRAFIRYSLVHQ RLADTLQQCFMNTKVTSWYYARSPFLQPKLSSDIVGQLYELTEVQFDLASRGFDL DAAWPTFARRTLTTGSSAYLWKPPSRSSSMSSLVSSYLQTQEMVSNFDLNSPLNNE ALEGFDEMRLELDQLEVREKQLRERMQQLDRENQELRAAVSQQGEQLQTERERG

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RTAAEDNVRLTCLVAELQKQWEVTQATQNTVKELQTCLQGLELGAAEKEEDYHTAL
 RRLESMLQPLAQELEATRDSLDKKNQHLASFPGWLAMAQQKADTASDTKGRQEP
 SDAAQEMQELGEKLQALERERTKVVEEVRQSSAQLEQLVKELQLKEDARASLERLV
 KEMAPLQEELSGKGQEQADQLWRRLQELLAHTSSWEEELAE LRREKKQQQEEKELL
 EQEVRSLTRQLQFLETQLAQVSQHVSDLEEQKKQLIQDKDHLSQQVGM LERLAGPP
 GPPLPVAGEKNEALVPVNSSLQEAWGKPEEEQRGLQEAQLDDTKVQEGSQEEELR
 QANRELEKELQNVVGRNQLLEGKLQALQADYQALQQRESAIQGS LASLEAEQASIR
 HLG DQMEASLLAVRKAKEAMKAQMAEKEAILQSKEGECQQ LREEVEQCQQ LAEAR
 HRELRALESQCQQQTQLIEVLTA EKGQQGVGPPTDNEARELAAQLALSQAQLEVHQ
 GEVQRLQAQVVDLQAKMRAALDDQDKVQSLSMAEAVLREHKT LVQQKKEQNEAL
 NRAHVQELLQCSEREGALQEERADEAQQREEELRALQEELSQA KCSSEEAQLEHA
 ELQEQLHRANTDTAELGIQVCALTVEKERVEEALACAVQELQDAKEAASRREGLE
 RQVAGLQQEKESLQEKLKAAKAAAGSLPGLQAQLAQAEQRAQSLQEAAHQELNTL
 KFQLSAEIMDYQSRLKNAGEECKSLRGQLEEQGRQLQAAEEAVEKLKATQADMGE
 KLSCTSNHLAECQAAMLRKDKEGAALREDLERTQKELEKATTKIQEYYNKL CQEVTN
 RERNDQKMLADLDDLNR TKKYLEERLIELLRDKDALWQKSDALEFQQKLSAEERWL
 GDTEANHCLDCKREFSWMVR RHHCRI CGRIFCYCCNNYVLSKHGGKKERCCRAC
 FQKLSEGPSPDSSSGSGTSQGEPSPALSPASPGPQATGGQGANTDYRPPDDAVFD
 IITDEELCQIQESGSSLPETPTETDSLDPNAAEQDTTSTSLTPEDTEDMPVGQDSEIC
 LLKSGELMIKVPLTVDEIASFGEGSRELFVRSSTYSLIPITVAEAGLTISWVFSSDPKSI
 SFSVVFQEAEDTPLDQCKVLIPTRCNSHKENIQGQLKVRTPGIYMLIFDNTFSRFVS
 KKV FYHLTVDRPVIYDGSDFLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Notes

For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage

Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Concentration > 0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name FYCO1 FYVE and coiled-coil domain containing 1 [Homo sapiens (human)]

Official Symbol FYCO1

Synonyms FYCO1; FYVE and coiled-coil domain containing 1; FYVE and coiled-coil domain-containing protein 1; FLJ13335; ZFYVE7; RUN and FYVE domain containing 3; zinc finger FYVE domain-containing protein 7; CATC2; RUFY3; MGC126517; MGC126519; DKFZp779K1152

Gene ID 79443

mRNA Refseq NM_024513

Protein Refseq NP_078789

MIM 607182

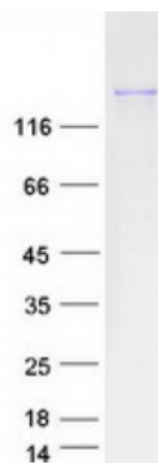
UniProt ID Q9BQS8

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SDS-PAGE



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