

Recombinant Human OPHN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OPHN1-4164H Lot. No. (See product label)

SPECIFICATION

Product Overview

OPHN1 MS Standard C13 and N15-labeled recombinant protein (NP_002538) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a Rho-GTPase-activating protein that promotes GTP hydrolysis of Rho subfamily members. Rho proteins are important mediators of intracellular signal transduction, which affects cell migration and cell morphogenesis. Mutations in this gene are responsible for OPHN1-related X-linked cognitive disability with cerebellar hypoplasia and distinctive facial dysmorphism.

Molecular Mass

91.5 kDa

AA Sequence

MGHPPLEFSDCYLDSPDFRERLKCYEQELERTNKFIDVIKDGNALISAMRNYSSAV
 QKFSQTLQSFQDFIGDITLDDEINIAESFKEFAELLNEVENERMMMVHNASDLLIKP
 LENFRKEQIGFTKERKKKFEKDGGERFYSLDDRHLHLSSKKKESQLQEADLQVDKERH
 NFFESSLDYVYQIQEVQESKKNIVEPVLAFHLHSLFISNSLTVELTQDFLPYKQQLQLS
 LQNTRNHFSSTREEMEELKKRMKEAPQTCKLPGQPTIEGYLYTQEKWALGISWVKY
 YCQYEKETKTLTMTPEQKPGAKQGPLDLTKYCVRRKTESIDKRFCFDIETNERPG
 TITLQALSEANRRLWMEAMDGKEPIYHSPITKQQEMELNEVGFKFVRKNCINIIETKGIK
 TEGLYRTVGSNIQVQKLLNAFFDPKCPGDVDFHNSDWDIKTITSSLKFYLRNLSEPV

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MTYRLHKELVSAAKSDNLDYRLGAIHSLVYKLPEKNREMLELLIRHLVNVCEHSKENL
 MTPSNMGVIFGPTLMRAQEDTVAAMMNIKFQNIIVVEILIEHFGKIYLGPEESAAPPV
 PPPRVTARRHKPITISKRLLRERTVFYTTSSLDESEDEIQHQTPNGTITSSIEPPKPPQH
 PKLPIQRSGETDPGRKSPSRPILDGKLEPCPEVDVVGKLVSRQLQDGGTKITPKATNGP
 MPGSGPTKTPSFHIKRPAPRPLAHHKEGDADSFKVRPPGEKPTIIRPPVRPPDPPC
 RAATPQKPEPKPDIVAGNAGEITSSVVASRTRFFETASRKTGSSQGRLPGDESTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

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 OPHN1 oligophrenin 1 [Homo sapiens (human)]

Official Symbol OPHN1

Synonyms OPHN1; oligophrenin 1; mental retardation, X linked 60, MRX60; oligophrenin-1; ARHGAP41; OPN1; mental retardation, X-linked 60; oligophrenin-1, Rho-GTPase activating protein; MRX60;

Gene ID 4983

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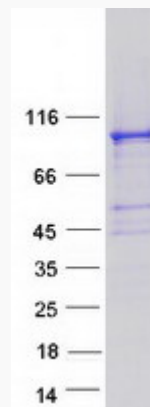
mRNA Refseq [NM_002547](#)


Protein Refseq [NP_002538](#)

MIM [300127](#)


UniProt ID [O60890](#)

SDS-PAGE



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