

Recombinant Human RASD2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RASD2-5922H Lot. No. (See product label)

SPECIFICATION

Product Overview

RASD2 MS Standard C13 and N15-labeled recombinant protein (NP_055125) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene belongs to the Ras superfamily of small GTPases and is enriched in the striatum. The encoded protein functions as an E3 ligase for attachment of small ubiquitin-like modifier (SUMO). This protein also binds to mutant huntingtin (mHtt), the protein mutated in Huntington disease (HD). Sumoylation of mHTT by this protein may cause degeneration of the striatum. The protein functions as an activator of mechanistic target of rapamycin 1 (mTOR1), which in turn plays a role in myelination, axon growth and regeneration. Reduced levels of mRNA expressed by this gene were found in HD patients.

Molecular Mass

30.4 kDa

AA Sequence

MMKTLSSGNCTLSVPAKNSYRMVVLGASRVGKSSIVSRFLNGRFEDQYTPTIEDFH
 RKVYNIRGDMYQLDILDTSGNHPPFAMRRLSILTDGDFILVFSLDNRESFDEVKRLQK
 QILEVKSCCLKNKTKEAAELPMVICGNKNDHGELCRQVPTTEAELLVSGDENCAAYFEV
 SAKKNTNVDEM FYVLF SMAKLPHEMSPALHRKISVQYGDAFHPRPFCMRRVKEMD
 AYG MVSPFARRPSVNSDLKYIKAKVLREGQARERDKCTIQTRTRPLEQKLISEEDLA

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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 [RASD2 RASD family member 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [RASD2](#)

Synonyms RASD2; RASD family, member 2; GTP-binding protein Rhes; MGC:4834; Ras homolog enriched in striatum; Rhes; TEM2; tumor endothelial marker 2;

Gene ID [23551](#)

mRNA Refseq [NM_014310](#)

Protein Refseq [NP_055125](#)

MIM [612842](#)

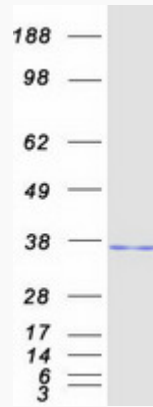
UniProt ID [Q96D21](#)

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SDS-PAGE



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