Rhophilin-2 (RHPN2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rhophilin-2 (Rhpn2), Recombinant Protein
Full Product Name	Recombinant Mouse Rhophilin-2 (Rhpn2)
Product Gene Name	Rhpn2 recombinant protein
Product Synonym Gene Name	Rhpn2
Sequence	MTDTLLPAAP QPLEKEGDDY FRKGCNPLAQ TGRSKLQNQR AALNQQILKA VRMRTGAENL LKVATNQKVR EQVRLELSFV NSDLQMLKEE LEGLNISVGV YQGTEEAFTI PLIPLGLKET KEVDFSIVFK DFILEHYSED SYLYEDDIAD LMDLRQACRT PSRDEAGVEL LMSYFIQLGF VESRFFPPTR HMGLLFTWYD SFTGVPVSQQ TLLLEKASVL FNIGALYTQI GTRCNRQTQA GLESAVDAFQ RAAGVLNYLK ETFTHTPSYD MSPAMLSVLV KMMLAQAQES VFEKVCLPGI QNEFFVLVKV AQEAAKVAEA YRQLHAAMSQ EPVKENIPYS WASVAYVKAY HYGALAHYFA ATLLIDHQLK PGADEDHQEK CLSQLYDRMP EGMTPLATLK NAGQRVLLGK GHLHRAIGFH EESLREANLC KKLRDIQVLR DVLSAAHQRT QLKHTQHRED DDLLNLIDAP DVLPKTEREV KITFPDFSKV TVTDFFQKLG PLSVFSASKR WSPPRGIHFT VEEGDLGFTL RGNTPVQVHF LDPHCSASLA GAKEGDYIVS IQGVDCKWLT VSEVMKLLKS FGGEEVEMKV VSLLDSTSSM HNKCATYSVG MQKTYSMICL SMDDDDKADK TKKISKKLSF LSWGTSKNRQ KSASTLCLPE VGLARSQNKK KLPTPFSLLN SDSSLY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	76,957 Da
Sequence Positions	1-686, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8BWR8
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rhpn2 recombinant protein	This gene encodes a member of the rhophilin family of Ras-homologous (Rho)-GTPase binding proteins. The encoded protein binds both GTP- and GDP-bound RhoA and GTP-bound RhoB and may be involved in the organization of the actin cytoskeleton.
Other Notes	Small volumes of Rhpn2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Rhpn2 purchase	MBS1314885 is a recombinant protein targeting Rhpn2. Also known as Recombinant Mouse Rhophilin-2 (Rhpn2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rhpn2. It may not necessarily be applicable to this product.

NCBI GI #	229092577
NCBI GeneID	52428
NCBI Accession #	NP_082173.3
UniProt Primary Accession #	Q8BWR8
UniProt Secondary Accession #	Q9DBN2
UniProt Related Accession #	Q8BWR8
GenBank Nucleotide #	NM_027897.4
NCBI Official Full Name	rhophilin-2
NCBI Official Synonym Full Names	rhophilin, Rho GTPase binding protein 2
NCBI Official Symbol	Rhpn2
NCBI Official Synonym Symbols	C85860; AA536890; D7Ertd784e; 1300002E07Rik
UniProt Protein Name	Rhophilin-2
UniProt Synonym Protein Names	GTP-Rho-binding protein 2
Protein Family	Rhophilin
UniProt Gene Name	Rhpn2
NCBI Protein Information	rhophilin-2
UniProt Comments for Rhpn2	Binds specifically to GTP-Rho. May function in a Rho pathway to limit stress fiber formation and/or increase the turnover of F-actin structures in the absence of high levels of RhoA activity ().
Research Articles on Rhpn2	**1.** Mice lacking rhophilin 2 develop normally, have normal life spans, and are fertile; rhophilin 2 does not play an essential role in thyroid physiology
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