Reticulocalbin-2 (RCN2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Reticulocalbin-2 (RCN2), Recombinant Protein
Full Product Name	Recombinant Human Reticulocalbin-2 (RCN2)
Product Gene Name	RCN2 recombinant protein
Product Synonym Gene Name	RCN2
Sequence	GKAEELHYPL GERRSDYDRE ALLGVQEDVD EYVKLGHEEQ QKRLQAIIKK IDLDSDGFLT ESELSSWIQM SFKHYAMQEA KQQFVEYDKN SDDTVTWDEY NIQMYDRVID FDENTALDDA EEESFRKLHL KDKKRFEKAN QDSGPGLSLE EFIAFEHPEE VDYMTEFVIQ EALEEHDKNG DGFVSLEEFL GDYRWDPTAN EDPEWILVEK DRFVNDYDKD NDGRLDPQEL LPWVVPNNQG IAQEEALHLI DEMDLNGDKK LSEEEILENP DLFLTSEATD YGRQLHDDYF YHDEL
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	39,139 Da
Sequence Positions	23-317, 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.
OMIM	602584
3D Structure	ModBase 3D Structure for Q14257
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RCN2 recombinant protein	This protein is a calcium-binding protein located in the lumen of the ER. The protein contains six conserved regions with similarity to a high affinity Ca(+2)-binding motif, the EF-hand. This gene maps to the same region as type 4 Bardet-Biedl syndrome, suggesting a possible causative role for this gene in the disorder.
Other Notes	Small volumes of RCN2 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 RCN2 purchase	MBS1455642 is a recombinant protein targeting RCN2. Also known as Recombinant Human Reticulocalbin-2 (RCN2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RCN2. It may not necessarily be applicable to this product.

NCBI GI #	426214088
NCBI GeneID	5955

NCBI Accession #	NP_001258766.1
UniProt Primary Accession #	Q14257
UniProt Secondary Accession #	Q53XN8; A8MTG6; F8WCY5
UniProt Related Accession #	Q14257
GenBank Nucleotide #	NM_001271837.1
NCBI Official Full Name	reticulocalbin-2 isoform b
NCBI Official Synonym Full Names	reticulocalbin 2
NCBI Official Symbol	RCN2
NCBI Official Synonym Symbols	E6BP; ERC55; ERC-55; TCBP49
UniProt Protein Name	Reticulocalbin-2
UniProt Synonym Protein Names	Calcium-binding protein ERC-55; E6-binding protein; E6BP
Protein Family	Regulator of calcineurin
UniProt Gene Name	RCN2
UniProt Synonym Gene Names	ERC55; E6BP
NCBI Protein Information	reticulocalbin-2
NCBI Summary for RCN2	The protein encoded by this gene is a calcium-binding protein located in the lumen of the ER. The protein contains six conserved regions with similarity to a high affinity Ca(+2)-binding motif, the EF-hand. This gene maps to the same region as type 4 Bardet-Biedl syndrome, suggesting a possible causative role for this gene in the disorder. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2012]
UniProt Comments for RCN2	Not known. Binds calcium.
Research Articles on RCN2	**1.** RCN2 plays a pivotal role in hepatocellular carcinoma cell proliferation and tumor growth presumably through regulating activation of the EGFR-ERK pathway.
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