CCDC47 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CCDC47, Recombinant Protein
Full Product Name	Recombinant Human CCDC47 Protein (His tag)
Product Gene Name	CCDC47 recombinant protein
Product Synonym Names	CCDC47
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 95 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	55,318 Da
3D Structure	ModBase 3D Structure for Q96A33
Predicted N Terminal	Lys 21
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for CCDC47 recombinant protein	The recombinant human CCDC47 consists of 126 amino acids and predicts a molecular mass of 14.7 KDa. It migrates as an approximately 22 KDa band in SDS-PAGE under reducing conditions.
Related Product Information for CCDC47 recombinant protein	Background: CCDC47 gene is expressed at high level. The gene contains 16 distinct gt-ag introns. Transcription produces 9 different mRNAs, 6 alternatively spliced variants and 3 unspliced forms. There are 3 probable alternative promotors, 3 non overlapping alternative last exons and 8 validated alternative polyadenylation sites. The mRNAs appear to differ by truncation of the 5' end, truncation of the 3' end, presence or absence of a cassette exon, overlapping exons with different boundaries. Functionally, CCDC47 gene has been proposed to participate in processes such as calcium ion homeostasis, embryo development, ER overload response and post-embryonic development. CCDC47 are expected to have molecular function (calcium ion binding) and to localize in various compartments (membrane, endoplasmic reticulum, integral to membrane, microsome). Description: A DNA sequence encoding the human CCDC47 (Q96A33-1) (Met1-Ser135) was expressed with a polyhistidine tag at the C-terminus.
Other Notes	Small volumes of CCDC47 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 CCDC47 purchase	MBS2545343 is a recombinant protein targeting CCDC47. Also known as Recombinant Human CCDC47 Protein (His tag). Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCDC47. It may not necessarily be applicable to this product.

NCBI GI #	171906582
NCBI GeneID	57003
NCBI Accession #	NP_064583.2

UniProt Primary Accession #	Q96A33
UniProt Secondary Accession #	Q96D00; Q96JZ7; Q9H3E4; Q9NRG3; B2RAS8; D3DU20
UniProt Related Accession #	Q96A33
GenBank Nucleotide #	NM_020198.2
NCBI Official Full Name	coiled-coil domain-containing protein 47
NCBI Official Synonym Full Names	coiled-coil domain containing 47
NCBI Official Symbol	CCDC47
NCBI Official Synonym Symbols	GK001; MSTP041
UniProt Protein Name	Coiled-coil domain-containing protein 47
Protein Family	Coiled-coil domain-containing protein
UniProt Gene Name	CCDC47
NCBI Protein Information	coiled-coil domain-containing protein 47
UniProt Comments for CCDC47	CCDC47: 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 17q23.3 Cellular Component: endoplasmic reticulum; membrane Molecular Function: calcium ion binding; protein binding Biological Process: osteoblast differentiation
Research Articles on CCDC47	**1.** these findings suggested that calumin serves to maintain the yolk sac integrity through participation in the ERAD activity, contributing to embryonic development.
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