Datasheet for ABIN7547810

FUNDC1 Protein (AA 1-155) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	FUNDC1
Protein Characteristics:	AA 1-155
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUNDC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat FUNDC1 Protein expressed in mammalien cells.
Sequence:	MATRNPPPQD YESDDDSYEV LDLTEYARRH QWWNRVFGHS SGPMVEKYSV ATQIVMGGVT GWCAGFLFQK VGKLAATAVG GGFLLLQIAS HSGYVQIDWK RVEKDVNKAK RQIKKRANKA APEINNLIEE ATEFIKQNIV ISSGFVGGFL LGLAS **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.

Product Details

	• State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	FUNDC1
Alternative Name:	FUNDC1 (FUNDC1 Products)
Background:	FUN14 domain-containing protein 1,FUNCTION: Integral mitochondrial outer-membrane protein that mediates the formation of mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed:33972548). In turn, mediates angiogenesis and neoangiogenesis through interference with intracellular Ca(2+) communication and regulation of the vascular endothelial growth factor receptor KDR/VEGFR2 expression at both mRNA and protein levels (PubMed:33972548). Acts also as an activator of hypoxia-induced mitophagy, an important mechanism for mitochondrial quality and homeostasis, by interacting with and recruiting LC3 protein family to mitochondria (PubMed:22267086, PubMed:24671035, PubMed:24746696, PubMed:27653272). Mechanistically, recruits DRP1 at ER-mitochondria contact sites leading to DRP1 oligomerization and GTPase activity to facilitate mitochondrial fission during hypoxia (PubMed:27145933, PubMed:33978709). Additionally, plays a role in hepatic ferroptosis by interacting directly with glutathione peroxidase/GPX4 to facilitate its recruitment into mitochondria through TOM/TIM complex where it is degraded by mitophagy (PubMed:36828120). {ECO:0000269|PubMed:22267086, ECO:0000269|PubMed:24671035, ECO:0000269|PubMed:24746696, ECO:0000269|PubMed:27145933, ECO:0000269|PubMed:27653272, ECO:0000269|PubMed:33972548, ECO:0000269|PubMed:33978709, ECO:0000269|PubMed:36828120}.

Target Details

Molecular Weight:	17.2 kDa
UniProt:	Q8IVP5

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

