

Datasheet for ABIN7547630
FEM1B Protein (AA 1-627) (His tag)



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Overview

Quantity:	1 mg
Target:	FEM1B
Protein Characteristics:	AA 1-627
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FEM1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat FEM1B Protein expressed in mammalien cells.
Sequence:	MEGLAGYVYK AASEGKVLTL AALLLNRSER DIRYLLGYVS QQGGQRSTPL IIAARNGHAK VVRLLLEHYR VQTQQTGTVR FDGYVIDGAT ALWCAAGAGH FEVVKLLVSH GANVNHTTVT NSTPLRAACF DGRLDIVKYL VENNANISIA NKYDNTCLMI AAYKGHTDVV RYLLEQRADP NAKAHCGATA LHFAAEAGHI DIVKELIKWR AAIWVNGHGM TPLKVA AESC KADVVELLS HADCDRRSRI EALELLGASF ANDRENYDII KTYHYLYLAM LERFQDGDNI LEKEVLPPIH AYGNRTECRN PQELESIRQD RDALHMEGLI VRERILGADN IDVSHPIYR GAVYADNMEF EQCIKLWLHA LHLRQKGNRN THKDLLRFAQ VFSQMIHLNE TVKAPDIECV LRCSVLEIEQ SMNRVKNISD ADVHNAMDNY ECNLYTFLYL VCISTKTQCS EEDQCKINKQ IYNLIHL DPR TREGFTLLHL AVNSNTPVDD FHTNDVCSFP NALVTKLLLD CGAEVNAVDN EGNALHIIV QYNRPISDFL TLHSIIISLV EAGAHTDMTN KQNKTPDKS TTGVSEILLK TQMKMSLKCL AARAVRANDI NYQDQIPRTL EEFVGFH Sequence without tag. The proposed Purification-Tag

Product Details

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 mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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:

FEM1B

Alternative Name:

FEM1B ([FEM1B Products](#))

Background:

Protein fem-1 homolog B (FEM1b) (FEM1-beta) (Fem-1-like death receptor-binding protein alpha) (Fem-1-like in apoptotic pathway protein alpha) (F1A-alpha),FUNCTION: Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:33398170, PubMed:33398168). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29779948, PubMed:33398170, PubMed:33398168). The CRL2(FEM1B) complex specifically recognizes proteins ending with -Gly-Leu-Asp-Arg, such as CDK5R1, leading to their ubiquitination and degradation (PubMed:33398170, PubMed:33398168). Also acts as a regulator of the reductive

Target Details

stress response by mediating ubiquitination of reduced FNIP1: in response to reductive stress, the CRL2(FEM1B) complex specifically recognizes a conserved Cys degron in FNIP1 when this degron is reduced, leading to FNIP1 degradation and subsequent activation of mitochondria to recalibrate reactive oxygen species (ROS) (By similarity). Mechanistically, recognizes and binds reduced FNIP1 through two interface zinc ions, which act as a molecular glue that recruit reduced FNIP1 to FEM1B (By similarity). Promotes ubiquitination of GLI1, suppressing GLI1 transcriptional activator activity (PubMed:24076122). Promotes ubiquitination and degradation of ANKRD37 (By similarity). Promotes ubiquitination and degradation of SLBP (PubMed:28118078). Involved in apoptosis by acting as a death receptor-associated protein that mediates apoptosis (PubMed:10542291). Also involved in glucose homeostasis in pancreatic islet (By similarity). May also act as an adapter/mediator in replication stress-induced signaling that leads to the activation of CHEK1 (PubMed:19330022).
{ECO:0000250|UniProtKB:Q9Z2G0, ECO:0000269|PubMed:10542291, ECO:0000269|PubMed:19330022, ECO:0000269|PubMed:24076122, ECO:0000269|PubMed:28118078, ECO:0000269|PubMed:29779948, ECO:0000269|PubMed:33398168, ECO:0000269|PubMed:33398170}.

Molecular Weight: 70.3 kDa

UniProt: [Q9UK73](#)

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