

Datasheet for ABIN7546973
DCAF12 Protein (AA 1-453) (His tag)



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Overview

Quantity:	1 mg
Target:	DCAF12
Protein Characteristics:	AA 1-453
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCAF12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DCAF12 Protein expressed in mammalian cells.
Sequence:	MARKVVSRRK KAPASPGAGS DAQGPQFGWD HSLHKRKRRLP PVKRSLVYYL KNREVRLLQNE TSYSRVLHGY AAQQLPSLLK EREFHLGTLN KVFAQWLNH RQVVCGTKCN TLFVVDVQTS QITKIPILKD REPGGVTQQG CGIHAIELNP SRTLLATGGD NPNSLAIYRL PTLDPVVCVGD DGHKDWIFSI AWISDTMAVS GSRDGSMLGW EVTDDVLTKS DARHNVSRVP VYAHITHKAL KDIPKEDTNP DNCKVRALAF NNKNKELGAV SLDGYFHLWK AENTLSKLLS TKLPYCRENV CLAYGSEWSV YAVGSQAHVS FLDPRQPSYN VKSVCSRERG SGIRSVSFYE HIITVGTGQG SLLFYDIRAQ RFLEERLSAC YGSKPRLAGE NLKLTTGKGW LNHDETWRNY FSDIDFFPNA VYTHCYDSSG TKLFVAGGPL PSGLHGNVYAG LWS 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

DCAF12

Alternative Name:

DCAF12 ([DCAF12 Products](#))

Background:

DDB1- and CUL4-associated factor 12 (Centrosome-related protein TCC52) (Testis cancer centrosome-related protein) (WD repeat-containing protein 40A),FUNCTION: Substrate-recognition component of a DCX (DDB1-CUL4-X-box) 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:16949367, PubMed:16964240, PubMed:29779948). 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). The DCX(DCAF12) complex specifically recognizes proteins with a diglutamate (Glu-Glu) at the C-terminus, such as MAGEA3, MAGEA6 and CCT5, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:31267705). Ubiquitination of MAGEA3, MAGEA6 by DCX(DCAF12) complex is required for starvation-induced autophagy (PubMed:31267705). Also directly

Target Details

recognizes the C-terminal glutamate-leucine (Glu-Leu) degron as an alternative degron in proteins such as MOV10, leading to their ubiquitination and degradation. Controls the protein level of MOV10 during spermatogenesis and in T cells, especially after their activation (PubMed:34065512). {ECO:0000269|PubMed:16949367, ECO:0000269|PubMed:16964240, ECO:0000269|PubMed:29779948, ECO:0000269|PubMed:31267705, ECO:0000269|PubMed:34065512}.

Molecular Weight: 50.5 kDa

UniProt: [Q5T6F0](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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