

Datasheet for ABIN7564501
BBS4 Protein (AA 1-520) (His tag)



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Overview

Quantity:	1 mg
Target:	BBS4
Protein Characteristics:	AA 1-520
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BBS4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Bbs4 Protein expressed in mammalian cells.
Sequence:	<p>MAEVKLG MKT QVPASVESQK PRSKKAPDFP IVEKQNWLIH LHYIRKDYEAKAVIKEQLQ ETQGLCEYAI YVQALIFRLE GNIQESLELF QTCAVLSPQC ADNLKQVARS LFLLGKHKAA TEVYNEAAKL NQKDWEICHN LGVCYTYLKQ FNKAQDQLHS ALQLNKHDLT YIMLGKIHLL QGDLDKAI EI YKKA VEFSP E NTELLTTLGL LYLQLGVYQK AFEHLGNALT YDPANYKAIL AAGSMMQTHG DFDVALTKYR VVACAIPESP PLWNNIGMCF FGKKKYVAAI SCLKRANYLA PFDWKILYNL GLVHLTMQQY ASAFHFLSAA INFQPKMGEL YMLLAVALTN LEDIENARRA YVEAVRLDKC NPLVNLNYAV LLYNQGEKKS ALAQYQEMEK KVNFLKDNSP LEFDSEMVEM AQKLGAALQV GEALVWTKPV KDPKTKHRTN SGSKSATLQQ PLGSIQALGQ AMSSAAAYRK ILSGAVGAQL PKPPSLPLEP EPEPTVEASP TEASEQKKEK</p> <p>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</p>

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:

BBS4

Alternative Name:

Bbs4 ([BBS4 Products](#))

Background:

Bardet-Biedl syndrome 4 protein homolog,FUNCTION: The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB3IP/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly and its ciliary localization. Required for microtubule anchoring at the centrosome but not for microtubule nucleation. May be

Target Details

	required for the dynein-mediated transport of pericentriolar proteins to the centrosome (By similarity). {ECO:0000250}.
Molecular Weight:	58.3 kDa
UniProt:	Q8C1Z7
Pathways:	Hedgehog Signaling , Tube Formation , Maintenance of Protein Location

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