

Datasheet for ABIN7556664

DOC2B Protein (AA 1-412) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	DOC2B
Protein Characteristics:	AA 1-412
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DOC2B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Doc2b Protein expressed in mammalian cells.
Sequence:	<p>MTLRRRGEKA TISIQEHMAI DVCPGPIRPI KQISDYFPRF PRGLPPTAAP RAPAPPDAPA</p> <p>RSPAASASPR SPSDGARDDD EDVDQLFGAY GASPGSPGP SPARPPAKPP EDEPDVDGYE</p> <p>SDDCTALGTL DFSLLYDQEN NALHCTISKA KGLKPMDHNG LADPYVKLHL LPGASKANKL</p> <p>RTKTLRNTLN PSWNETLTYT GITDEDMVRK TLRISVCDED KFRHNEFIGE TRVPLKKLKP</p> <p>NHTKTFSICL EKQLPVDKAE DKSLEERGRI LISLKYSSQK QGLLVGIVRC AHLAAMDANG</p> <p>YSDPYVKTYL KPDVDKSKH KTAVKKKTLN PEFNEEFCYE IKHGDLA KKT LEVTVWDYDI</p> <p>GKSNDFIGGV VLGINAKGER LKHWFDC LKN KDKRIERWHT LTNELPGAVL SD 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.</p>
Characteristics:	Key Benefits:

Product Details

- 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: DOC2B

Alternative Name: Doc2b ([DOC2B Products](#))

Background: Double C2-like domain-containing protein beta (Doc2-beta),FUNCTION: Calcium sensor which positively regulates SNARE-dependent fusion of vesicles with membranes. Binds phospholipids in a calcium-dependent manner and may act at the priming stage of fusion by modifying membrane curvature to stimulate fusion. Involved in calcium-triggered exocytosis in chromaffin cells and calcium-dependent spontaneous release of neurotransmitter in absence of action potentials in neuronal cells. Involved both in glucose-stimulated insulin secretion in pancreatic cells and insulin-dependent GLUT4 transport to the plasma membrane in adipocytes. {ECO:0000269|PubMed:19033398, ECO:0000269|PubMed:19410553, ECO:0000269|PubMed:20150444, ECO:0000269|PubMed:8902635}.

Molecular Weight: 45.9 kDa

UniProt: [P70169](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#)

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.
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Restrictions:	For Research Use only
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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