Datasheet for ABIN7564805

DTNBP1 Protein (AA 1-352) (His tag)

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Overview

Quantity:	1 mg
Target:	DTNBP1
Protein Characteristics:	AA 1-352
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DTNBP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Dtnbp1 Protein expressed in mammalien cells.
Sequence:	MLETLRERLL SVQQDFTSGL KTLSDKSREA KVKGKPRTAP RLPKYSAGLE LLSRYEDAWA ALHRRAKECA DAGELVDSEV VMLSAHWEKK RTSLNELQGQ LQQLPALLQD LESLMASLAH LETSFEEVEN HLLHLEDLCG QCELERHKQA QAQHLESYKK SKRKELEAFK AELDTEHTQK ALEMEHTQQL KLKERQKFFE EAFQQDMEQY LSTGYLQIAE RREPMGSMSS MEVNVDVLEQ MDLMDISDQE ALDVFLNSGG EDNIVMSPGV EMESNPNQNE MSLQIPSPSE SASQPPASPS ACTDLDTADA PLIQSDEEEV QVDTALVTLH TDRKSTPGVS DDSDQCDSTQ DI **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:

Product Details

- 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.
- 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:	DTNBP1
Alternative Name:	Dtnbp1 (DTNBP1 Products)
Background:	Dysbindin (Biogenesis of lysosome-related organelles complex 1 subunit 8) (BLOC-1 subunit 8) (Dysbindin-1) (Dystrobrevin-binding protein 1) (Hermansky-Pudlak syndrome 7 protein homolog) (HPS7 protein homolog),FUNCTION: Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Associates with the BLOC-2 complex to facilitate the transport of TYRP1 independent of AP-3 function. Plays a role in synaptic vesicle trafficking and in neurotransmitter release. Plays a role in the regulation of cell surface exposure of DRD2. May play a role in actin cytoskeleton reorganization and neurite outgrowth. May modulate MAPK8 phosphorylation. Appears to promote neuronal transmission and viability through regulating the expression of SNAP25 and SYN1, modulating PI3-kinase-Akt signaling and influencing glutamatergic release. Regulates the expression of SYN1 through

Target Details

	binding to its promoter. Modulates prefrontal cortical activity via the dopamine/D2 pathway. {ECO:0000269|PubMed:12923531, ECO:0000269|PubMed:15345706, ECO:0000269|PubMed:16448387, ECO:0000269|PubMed:16760431, ECO:0000269|PubMed:16837549, ECO:0000269|PubMed:18504299, ECO:0000269|PubMed:18555792, ECO:0000269|PubMed:18984010, ECO:0000269|PubMed:19094965, ECO:0000269|PubMed:19428785, ECO:0000269|PubMed:19546860, ECO:0000269|PubMed:19887632, ECO:0000269|PubMed:20045719, ECO:0000269|PubMed:20921223, ECO:0000269|PubMed:20956979, ECO:0000269|PubMed:21998198}.
Molecular Weight:	39.7 kDa
UniProt:	Q91WZ8
Pathways:	Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling

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