Datasheet for ABIN7552195

FE65 Protein (AA 1-710) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	FE65 (APBB1)
Protein Characteristics:	AA 1-710
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FE65 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant APBB1 Protein expressed in mammalian cells.
Sequence:	MSVPSSLSQS AINANSHGGP ALSLPLPLHA AHNQLLNAKL QATAVGPKDL RSAMGEGGGP EPGPANAKWL KEGQNQLRRA ATAHRDQNRN VTLTLAEEAS QEPEMAPLGP KGLIHLYSEL ELSAHNAANR GLRGPGLIIS TQEQGPDEGE EKAAGEAEEE EEDDDDEEEE EDLSSPPGLP EPLESVEAPP RPQALTDGPR EHSKSASLLF GMRNSAASDE DSSWATLSQG SPSYGSPEDT DSFWNPNAFE TDSDLPAGWM RVQDTSGTYY WHIPTGTTQW EPPGRASPSQ GSSPQEESQL TWTGFAHGEG FEDGEFWKDE PSDEAPMELG LKEPEEGTLT FPAQSLSPEP LPQEEEKLPP RNTNPGIKCF AVRSLGWVEM TEEELAPGRS SVAVNNCIRQ LSYHKNNLHD PMSGGWGEGK DLLLQLEDET LKLVEPQSQA LLHAQPIISI RVWGVGRDSG RERDFAYVAR DKLTQMLKCH VFRCEAPAKN IATSLHEICS KIMAERRNAR CLVNGLSLDH SKLVDVPFQV EFPAPKNELV QKFQVYYLGN VPVAKPVGVD VINGALESVL SSSSREQWTP SHVSVAPATL TILHQQTEAV LGECRVRFLS FLAVGRDVHT FAFIMAAGPA SFCCHMFWCE PNAASLSEAV QAACMLRYQK CLDARSQAST SCLPAPPAES VARRVGWTVR RGVQSLWGSL KPKRLGAHTP **Sequence without**

Product Details

	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 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:	FE65 (APBB1)
Alternative Name:	APBB1 (APBB1 Products)
Background:	Amyloid beta precursor protein binding family B member 1 (Amyloid-beta A4 precursor protein-binding family B member 1) (Protein Fe65),FUNCTION: Transcription coregulator that can have both coactivator and corepressor functions (PubMed:15031292, PubMed:18468999, PubMed:18922798, PubMed:25342469, PubMed:33938178). Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain (PubMed:15031292, PubMed:18468999, PubMed:18922798, PubMed:25342469). Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis (PubMed:15031292, PubMed:18468999, PubMed:18922798,

Target Details

	PubMed:25342469). May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1 (PubMed:19234442). Required for histone H4 acetylation at double-strand breaks (DSBs) (PubMed:19234442). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity (PubMed:33938178). Functions in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4 (PubMed:19343227). Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s) (PubMed:19343227). Involved in hippocampal neurite branching and neuromuscular junction formation, as a result plays a role in spatial memory functioning (By similarity). Plays a role in the maintenance of lens transparency (By similarity). May play a role in muscle cell strength (By similarity). Acts as a molecular adapter that functions in neurite outgrowth by activating the RAC1-ARF6 axis upon insulin treatment (PubMed:36250347). {ECO:0000250|UniProtKB:Q9QXJ1, ECO:0000269|PubMed:15031292, ECO:0000269|PubMed:18468999, ECO:0000269|PubMed:18922798, ECO:0000269|PubMed:19234442, ECO:0000269|PubMed:19343227, ECO:0000269|PubMed:25342469, ECO:0000269|PubMed:33938178, ECO:0000269|PubMed:36250347}.
Molecular Weight:	77.2 kDa
UniProt:	O00213
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months