

Datasheet for ABIN7554013 GFI1B Protein (AA 1-330) (His tag)



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Overview

Quantity:	1 mg
Target:	GFI1B
Protein Characteristics:	AA 1-330
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFI1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GFI1B Protein expressed in mammalian cells.
Sequence:	<p>MPRSFLVKSK KAHTYHQPRV QEDEPLWPPA LTPVPRDQAP SNSPVLSTLF PNQCLDWTNL KREPELEQDQ NLARMAPAPE GPIVLSRPQD GDSPLSDSPP FYKPSFSWDT LATTYGHYSYR QAPSTMQSAF LEHSVSLYGS PLVPSTEPAL DFLRYSPGM DAYHCVKCNK VFSTPHGLEV HVRRSHSGTR PFACDICGKT FGHAVSLEQH THVHSQERSF ECRMCGKAFK RSSTLSTHLL IHSDTRPYPC QFCGKRFBHQK SDMCKHTYIH TGEKPHKCQV CGKAFSQSSN LITHSRKHTG FKPFSCSELCT KGFQRKVDLR RHRESQHNLK 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
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Grade:	custom-made
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Target Details

Target:	GFI1B
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Alternative Name:	GFI1B (GFI1B Products)
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Background:	<p>Zinc finger protein Gfi-1b (Growth factor independent protein 1B) (Potential regulator of CDKN1A translocated in CML),FUNCTION: Essential proto-oncogenic transcriptional regulator necessary for development and differentiation of erythroid and megakaryocytic lineages. Component of a RCOR-GFI-KDM1A-HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development and controls hematopoietic differentiation. Transcriptional repressor or activator depending on both promoter and cell type context, represses promoter activity of SOCS1 and SOCS3 and thus, may regulate cytokine signaling pathways. Cooperates with GATA1 to repress target gene transcription, such as the apoptosis regulator BCL2L1, GFI1B silencing in leukemic cell lines markedly increase apoptosis rate. Inhibits down-regulation of MYC and MYB as well as the cyclin-dependent kinase inhibitor CDKN1A/P21WAF1 in IL6-treated myelomonocytic cells. Represses expression of GATA3 in T-cell lymphomas and inhibits GATA1-mediated transcription, as GATA1 also mediates erythroid GFI1B transcription, both GATA1 and GFI1B participate in a feedback regulatory pathway controlling the expression of GFI1B gene in</p>
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Target Details

erythroid cells. Suppresses GATA1-mediated stimulation of GFI1B promoter through protein interaction. Binds to gamma-satellite DNA and to its own promoter, auto-repressing its own expression. Alters histone methylation by recruiting histone methyltransferase to target genes promoters. Plays a role in heterochromatin formation. {ECO:0000269|PubMed:12351384, ECO:0000269|PubMed:16177182, ECO:0000269|PubMed:16688220, ECO:0000269|PubMed:16782810, ECO:0000269|PubMed:17156408, ECO:0000269|PubMed:17272506, ECO:0000269|PubMed:17420275}.

Molecular Weight: 37.5 kDa

UniProt: [Q5VTD9](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

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