Datasheet for ABIN7562980

IRF8 Protein (AA 1-424) (His tag)

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Overview

Quantity:	1 mg
Target:	IRF8
Protein Characteristics:	AA 1-424
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRF8 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Irf8 Protein expressed in mammalien cells.
Sequence:	MCDRNGGRRL RQWLIEQIDS SMYPGLIWEN DEKTMFRIPW KHAGKQDYNQ EVDASIFKAW AVFKGKFKEG DKAEPATWKT RLRCALNKSP DFEEVTDRSQ LDISEPYKVY RIVPEEEQKC KLGVAPAGCM SEVPEMECGR SEIEELIKEP SVDEYMGMTK RSPSPPEACR SQILPDWWVQ QPSAGLPLVT GYAAYDTHHS AFSQMVISFY YGGKLVGQAT TTCLEGCRLS LSQPGLPKLY GPDGLEPVCF PTADTIPSER QRQVTRKLFG HLERGVLLHS NRKGVFVKRL CQGRVFCSGN AVVCKGRPNK LERDEVVQVF DTNQFIRELQ QFYATQSRLP DSRVVLCFGE EFPDTVPLRS KLILVQVEQL YARQLVEEAG KSCGAGSLMP ALEEPQPDQA FRMFPDICTS HQRPFFRENQ QITV **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:	IRF8
Alternative Name:	Irf8 (IRF8 Products)
Background:	Interferon regulatory factor 8 (IRF-8) (Interferon consensus sequence-binding protein) (ICSBP),FUNCTION: Transcription factor that specifically binds to the upstream regulatory region of type I interferon (IFN) and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) (PubMed:2111015, PubMed:12393690). Can both act as a transcriptional activator or repressor (PubMed:2111015). Plays a negative regulatory role in cells of the immune system (PubMed:2111015). Involved in CD8(+) dendritic cell differentiation by forming a complex with the BATF-JUNB heterodimer in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF8 and activation of genes (PubMed:12393690, PubMed:22992524). Required for the development of plasmacytoid dendritic cells (pDCs), which produce most of the type I IFN in response to viral infection (PubMed:12461077, PubMed:12393690, PubMed:12538667, PubMed:23382217). Positively regulates macroautophagy in dendritic cells (By similarity). Acts as a transcriptional repressor of osteoclast differentiation factors such as NFATC1 and EEIG1 (PubMed:32741026).

Target Details

	{ECO:0000250|UniProtKB:Q02556, ECO:0000269|PubMed:12393690, ECO:0000269|PubMed:12461077, ECO:0000269|PubMed:12538667, ECO:0000269|PubMed:2111015, ECO:0000269|PubMed:22992524, ECO:0000269|PubMed:23382217, ECO:0000269|PubMed:32741026}.
Molecular Weight:	48.2 kDa
UniProt:	P23611
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