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Datasheet for ABIN7555662
STAT2 Protein (AA 1-851) (His tag)

Overview

Quantity:	1 mg
Target:	STAT2
Protein Characteristics:	AA 1-851
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat STAT2 Protein expressed in mammalian cells.
Sequence:	MAQWEMLQNL DSPFQDQLHQ LYSHSLLPVD IRQYLAVWIE DQNWQEALG SDDSKATMLF FHFLDQLNVE CGRCSQDPES LLLQHNLRFK CRDIQPFSQD PTQLAEMIFN LLLLEKRILI QAQRAQLEQG EPVLETPVES QQHEIESRIL DLRAMMEKLV KSISQLKDQQ DVFCFRYKIQ AKGKTPSLDP HQTKEQKILQ ETLNELDKRR KEVLDASKAL LGRLTTLIEL LLPKLEEWKA QQQKACIRAP IDHGLEQLET WFTAGAKLLF HLRQLLKELK GLSCLVSYQD DPLTKGVDLR NAQVTELLQR LLHRAFVVET QPCMPQTPHR PLIKTGSKF TVRTRLLVRL QEGNESLTV VSIDRNPPQL QGFRKFNILT SNQKTLTPEK GQSQGLIWDF GYLTLVEQRS GGSGKGSNKG PLGVTEELHI ISFTVKYTYQ GLKQELKTD T LPVVIISNMN QLSIAWASVL WFNLLSPNLQ NQQFFSNPPK APWSLLGPAL SWQFSSYVGR GLNSDQLSML RNKLFQGNCR TEDPLLSWAD FTKRESPPGK LPFWTWLDKI LELVHDHLKD LWNDGRIMGF VSRSQERRLL KKTMSGTFLL RFSESSEGGI TCSWVEHQDD DKVLIYSVQP YTKEVLQSLP LTEIRHYQL LTEENIPENP

Product Details

LRFLYPRIPR DEAFGCYYQE KVNLRQERRKY LKHRLIVVSN RQVDELQQPL ELKPEPELES
LELEGLVPE PELSLDLEPL LKAGLDLGPE LESVLESTLE PVIEPTLCMV SQTVPEDQG
PVSQPVPEPD LPCDLRHLNT EPMEIFRNCV KIEEIMPNGD PLLAGQNTVD EYVYSRPSHF
YTDGPLMPD F **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:

- 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:

STAT2

Alternative Name:

STAT2 ([STAT2 Products](#))

Background:

Signal transducer and activator of transcription 2 (p113),FUNCTION: Signal transducer and activator of transcription that mediates signaling by type I interferons (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state

Target Details

(PubMed:9020188, PubMed:23391734). In addition, has also a negative feedback regulatory role in the type I interferon signaling by recruiting USP18 to the type I IFN receptor subunit IFNAR2 thereby mitigating the response to type I IFNs (PubMed:28165510). Acts as a regulator of mitochondrial fission by modulating the phosphorylation of DNM1L at 'Ser-616' and 'Ser-637' which activate and inactivate the GTPase activity of DNM1L respectively (PubMed:26122121, PubMed:23391734, PubMed:9020188). {ECO:0000269|PubMed:23391734, ECO:0000269|PubMed:26122121, ECO:0000269|PubMed:28165510, ECO:0000269|PubMed:31836668, ECO:0000269|PubMed:32092142, ECO:0000269|PubMed:9020188}.

Molecular Weight: 97.9 kDa

UniProt: [P52630](#)

Pathways: [JAK-STAT Signaling](#), [Hepatitis C](#), [CXCR4-mediated Signaling Events](#)

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