Datasheet for ABIN7563530

FER Protein (AA 1-823) (His tag)

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Overview

Quantity:	1 mg
Target:	FER
Protein Characteristics:	AA 1-823
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FER protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Fer Protein expressed in mammalian cells.
Sequence:	MGFGSDLKNS QEAVLKLQDW ELRLLETVKK FMALRIKSDK EYAYTLQNLC NQVDKESTVQ VNYVSNVSKS WLLMIQQTEQ LSRIMKTHAE DLNSGPLHRL TMMIKDKQQV KKSYVGIHQQ IEAEMIKVTK TELEKLKSSY RQLIKEMNSA KEKYKEALAK GKETEKAKER YDKATMKLHM LHNQYVLALK GAQLHQSQYY DTTLPLLLDS VQKMQEEMIK ALKGIFDDYS QITSLVTEEI VNVHKEIQMS VEQIDPSTEY NNFIDVHRTT AAKEQEIEFD TSLLEENENL QANEIMWNNL TADSLQVMLK TLAEELTQTQ QMLLHKEAAV LELEKRIEES FETCEKKSDI VLLLGQKQAL EELKQSVQQL RCTEAKCAAQ KALLEQKVQE NDGKEPPPVV NYEEDARSVT SMERKERLSK FESIRHSIAG IIKSPKSVLG SSTQVCDVIS VGERPLAEHD WYHGAIPRIE AQELLKQQGD FLVRESHGKP GEYVLSVYSD GQRRHFIIQF VDNLYRFEGT GFSNIPQLID HHFNTKQVIT KKSGVVLLNP IPKDKKWVLN HEDVSLGELL GKGNFGEVYK GTLKDKTPVA IKTCKEDLPQ ELKIKFLQEA KILKQYDHPN IVKLIGVCTQ RQPVYIIMEL VPGGDFLTFL RKRKDELKLK QLVRFSLDVA AGMLYLESKN CIHRDLAARN CLVGENNTLK ISDFGMSRQE DGGVYSSSGL

Product Details

	KQIPIKWTAP EALNYGRYSS ESDVWSFGIL LWETFSLGVC PYPGMTNQQA REQVERGYRM SAPQNCPEEV FTIMMKCWDY KPENRPKFND LHKELTVIKK MIT **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.**
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:	FER
Alternative Name:	Fer (FER Products)
Background:	Tyrosine-protein kinase Fer (EC 2.7.10.2) (Proto-oncogene c-Fer) (p94-Fer),FUNCTION: Tyrosine-protein kinase that acts downstream of cell surface receptors for growth factors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, lamellipodia formation, cell adhesion, cell migration and chemotaxis. Acts downstream of EGFR, KIT, PDGFRA and PDGFRB. Acts downstream of EGFR to promote activation of NF-kappa-B and cell proliferation. May play a role in the regulation of the mitotic cell cycle. Plays a role in the insulin

Target Details

	receptor signaling pathway and in activation of phosphatidylinositol 3-kinase. Acts downstream of the activated FCER1 receptor and plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Plays a role in the regulation of mast cell degranulation. Plays a role in leukocyte recruitment and diapedesis in response to bacterial lipopolysaccharide (LPS). Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3 according to PubMed:10878010 and PubMed:19159681, but clearly plays a redundant role in STAT3 phosphorylation. According to PubMed:11134346, cells where wild type FER has been replaced by a kinase-dead mutant show no reduction in STAT3 phosphorylation. Phosphorylates TMF1. Isoform 3 lacks kinase activity. {ECO:0000269|PubMed:10878010, ECO:0000269|PubMed:11006284, ECO:0000269|PubMed:11994443, ECO:0000269|PubMed:15226396, ECO:0000269|PubMed:16176974, ECO:0000269|PubMed:16731527, ECO:0000269|PubMed:16732323, ECO:0000269|PubMed:17606629, ECO:0000269|PubMed:19159681, ECO:0000269|PubMed:20133938, ECO:0000269|PubMed:7623846, ECO:0000269|PubMed:9742951}.
Molecular Weight:	94.6 kDa
UniProt:	P70451

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