.-online.com antibodies

Datasheet for ABIN3093147 ITCH Protein (AA 2-903) (His tag)



Overview

Quantity:	1 mg
Target:	ITCH
Protein Characteristics:	AA 2-903
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITCH protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SDSGSQLGSM GSLTMKSQLQ ITVISAKLKE NKKNWFGPSP YVEVTVDGQS KKTEKCNNTN
	SPKWKQPLTV IVTPVSKLHF RVWSHQTLKS DVLLGTAALD IYETLKSNNM KLEEVVVTLQ
	LGGDKEPTET IGDLSICLDG LQLESEVVTN GETTCSENGV SLCLPRLECN SAISAHCNLC
	LPGLSDSPIS ASRVAGFTGA SQNDDGSRSK DETRVSTNGS DDPEDAGAGE NRRVSGNNSP
	SLSNGGFKPS RPPRPSRPPP PTPRRPASVN GSPSATSESD GSSTGSLPPT NTNTNTSEGA
	TSGLIIPLTI SGGSGPRPLN PVTQAPLPPG WEQRVDQHGR VYYVDHVEKR TTWDRPEPLP
	PGWERRVDNM GRIYYVDHFT RTTTWQRPTL ESVRNYEQWQ LQRSQLQGAM QQFNQRFIYG
	NQDLFATSQS KEFDPLGPLP PGWEKRTDSN GRVYFVNHNT RITQWEDPRS QGQLNEKPLP
	EGWEMRFTVD GIPYFVDHNR RTTTYIDPRT GKSALDNGPQ IAYVRDFKAK VQYFRFWCQQ
	LAMPQHIKIT VTRKTLFEDS FQQIMSFSPQ DLRRRLWVIF PGEEGLDYGG VAREWFFLLS
	HEVLNPMYCL FEYAGKDNYC LQINPASYIN PDHLKYFRFI GRFIAMALFH GKFIDTGFSL
	PFYKRILNKP VGLKDLESID PEFYNSLIWV KENNIEECDL EMYFSVDKEI LGEIKSHDLK

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LCGMQEIDLN DWQRI AVRAIT VARTSKQIMM PWQFVKEIDN EKRMRLLQFV TGTCRLPVGG FADLMGSNGP QK-CIEKVGK ENWLPRSHTC FNRLDLPPVK SYEQUEKLL FAIEETEGFG QE Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.Characteristics:• Made in Germany - from design to production - by highly experienced protein experts. • Human 11 CH Protein (raised in insect Cells) purified by multi-step, protein-specific process to ensure crystalization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experiment specific reference buffer. The concentration of porteins expressed in baculovirus infected SF0 insect cells: 1. In a first purification step, the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient experts, specific reference buffer.Purification:Two step purification of proteins expressed in baculovirus infected SF0 insect cells: 1. In		PNGGNILVTE ENKEEYIRMV AEWRLSRGVE EQTQAFFEGF NEILPQQYLQ YFDAKELEVL
FADLMOSNOP QKFCIEKVGK ENWLPRSHTC ENRLDLPPYK SYEQLKEKLL FAIEETEGEG QE Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.Characteristics:• Made in Germany - from design to production - by highly experienced protein experts. • Human ITCH Protein (reised in Insect Cells) purified by multi-step, protein specific process to ensure crystalization grade. • State-of-the-art algorithm used for plasmid design (Cene 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expression process for custom-made proteins, e.g. fees might apply for the expression process for custom-made proteins, e.g. fees might apply for the expression process for custom-made proteins, e.g. fees might apply for the expression process or protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expassys protparam tool to determine the absorption coefficient of each protein. Specific reference buffer.Purification:Two step purification step, the protein is purified from the cleared cell ysate using three different His-tag capture materials high yield, EDTA resistant, or DTT resistant.		LCGMQEIDLN DWQRHAIYRH YARTSKQIMW FWQFVKEIDN EKRMRLLQFV TGTCRLPVGG
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	Sterility:	0.22 µm filtered

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Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	ІТСН
Alternative Name:	ITCH (ITCH Products)
Background:	Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating
	enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted
	substrates. It catalyzes 'Lys-29'-, 'Lys-48'- and 'Lys-63'-linked ubiquitin conjugation. It is involved
	in the control of inflammatory signaling pathways. Is an essential component of a ubiquitin-
	editing protein complex, comprising also TNFAIP3, TAX1BP1 and RNF11, that ensures the
	transient nature of inflammatory signaling pathways. Promotes the association of the complex
	after TNF stimulation. Once the complex is formed, TNFAIP3 deubiquitinates 'Lys-63'
	polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This
	leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-
	mediated activation of NFKB1. Ubiquitinates RIPK2 by 'Lys-63'-linked conjugation and
	influences NOD2-dependent signal transduction pathways. Regulates the transcriptional
	activity of several transcription factors, and probably plays an important role in the regulation of
	immune response. Ubiquitinates NFE2 by 'Lys-63' linkages and is implicated in the control of
	the development of hematopoietic lineages. Critical regulator of T-helper (TH2) cytokine
	development through its ability to induce JUNB ubiquitination and degradation (By similarity).
	Ubiquitinates SNX9. Ubiquitinates CXCR4 and HGS/HRS and regulates sorting of CXCR4 to the
	degradative pathway. It is involved in the negative regulation of MAVS-dependent cellular
	antiviral responses. Ubiquitinates MAVS through 'Lys-48'-linked conjugation resulting in MAVS
	proteasomal degradation. Involved in the regulation of apoptosis and reactive oxygen species
	levels through the ubiquitination and proteasomal degradation of TXNIP. Mediates the
	antiapoptotic activity of epidermal growth factor through the ubiquitination and proteasomal
	degradation of p15 BID. Targets DTX1 for lysosomal degradation and controls NOTCH1
	degradation, in the absence of ligand, through 'Lys-29'-linked polyubiquitination. Ubiquitinates
	BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (PubMed:25631046).
	{ECO:0000250 UniProtKB:Q8C863, ECO:0000269 PubMed:14602072,
	ECO:0000269 PubMed:16387660, ECO:0000269 PubMed:17028573,
	EC0:0000269 PubMed:18628966, EC0:0000269 PubMed:18718448,
	ECO:0000269 PubMed:18718449, ECO:0000269 PubMed:19131965,

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Target Details	
	ECO:0000269 PubMed:19592251, ECO:0000269 PubMed:19881509,
	EC0:0000269 PubMed:20068034, EC0:0000269 PubMed:20392206,
	ECO:0000269 PubMed:23146885, ECO:0000269 PubMed:25631046}.
Molecular Weight:	103.6 kDa Including tag.
UniProt:	Q96J02
Pathways:	Activation of Innate immune Response, 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 gurantee
	though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

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