Datasheet for ABIN3135992

CYLD Protein (AA 1-952) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CYLD
Protein Characteristics:	AA 1-952
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYLD protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MSSGLWSQEK VTSPYWEERI FYLLLQECSV TDKQTQKLLK VPKGSIGQYI QDRSVGHSRV PSTKGKKNQI GLKILEQPHA VLFVDEKDVV EINEKFTELL LAITNCEERL SLFRNRLRLS KGLQVDVGSP VKVQLRSGEE KFPGVVRFRG PLLAERTVSG IFFGVELLEE GRGQGFTDGV YQGKQLFQCD EDCGVFVALD KLELIEDDDN GLESDFAGPG DTMQVEPPPL EINSRVSLKV GESTESGTVI FCDVLPGKES LGYFVGVDMD NPIGNWDGRF DGVQLCSFAS VESTILLHIN DIIPDSVTQE RRPPKLAFMS RGVGDKGSSS HNKPKVTGST SDPGSRNRSE LFYTLNGSSV DSQQSKSKNP WYIDEVAEDP AKSLTEMSSD FGHSSPPPQP PSMNSLSSEN RFHSLPFSLT KMPNTNGSMA HSPLSLSVQS VMGELNSTPV QESPPLPISS GNAHGLEVGS LAEVKENPPF YGVIRWIGQP PGLSDVLAGL ELEDECAGCT DGTFRGTRYF TCALKKALFV KLKSCRPDSR FASLQPVSNQ IERCNSLAFG GYLSEVVEEN TPPKMEKEGL EIMIGKKKGI QGHYNSCYLD STLFCLFAFS SALDTVLLRP KEKNDIEYYS ETQELLRTEI VNPLRIYGYV CATKIMKLRK ILEKVEAASG FTSEEKDPEE FLNILFHDIL RVEPLLKIRS AGQKVQDCNF YQIFMEKNEK

	VGVPTIQQLL EWSFINSNLK FAEAPSCLII QMPRFGKDFK LFKKIFPSLE LNITDLLEDT PRQCRICGGL AMYECRECYD DPDISAGKIK QFCKTCSTQV HLHPRRLNHS YHPVSLPKDL PDWDWRHGCI PCQKMELFAV LCIETSHYVA FVKYGKDDSA WLFFDSMADR DGGQNGFNIP QVTPCPEVGE YLKMSLEDLH SLDSRRIQGC ARRLLCDAYM CMYQSPTMSL YK **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. • Mouse Cyld Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization 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 unlikely 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 experienced 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 Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	CYLD
Alternative Name:	Cyld (CYLD Products)
Background:	Protease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Has endodeubiquitinase activity. Plays an important role in the regulation of pathways leading to NF-kappa-B activation. Contributes to the regulation of cell survival, proliferation and differentiation via its effects on NF-kappa-B activation. Negative regulator of Wnt signaling. Inhibits HDAC6 and thereby promotes acetylation of alpha-tubulin and stabilization of microtubules. Plays a role in the regulation of microtubule dynamics, and thereby contributes to the regulation of cell proliferation, cell polarization, cell migration, and angiogenesis. Required for normal cell cycle progress and normal cytokinesis. Inhibits nuclear translocation of NF-kappa-B (By similarity). Plays a role in the regulation of inflammation and the innate immune response, via its effects on NF-kappa-B activation. Dispensable for the maturation of intrathymic natural killer cells, but required for the continued survival of immature natural killer cells. Negatively regulates TNFRSF11A signaling and osteoclastogenesis. Involved in the regulation of ciliogenesis, allowing ciliary basal bodies to migrate and dock to the plasma membrane, this process does not depend on NF-kappa-B activation (PubMed:25134987). {ECO:0000250|UniProtKB:Q9NQC7, ECO:0000269|PubMed:16501569, ECO:0000269|PubMed:16713561, ECO:0000269|PubMed:17548520, ECO:0000269|PubMed:18382763, ECO:0000269|PubMed:18643924, ECO:0000269|PubMed:19893491, ECO:0000269|PubMed:20194890, ECO:0000269|PubMed:25134987}.
Molecular Weight:	107.5 kDa Including tag.
UniProt:	Q80TQ2
Pathways:	Apoptosis, Activation of Innate immune Response

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

Application Details

	though.
Comment:	Protein has not been tested for activity yet. 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)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process