

Datasheet for ABIN7564254  
**Rubicon Protein (AA 1-956) (His tag)**



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## Overview

Quantity:	1 mg
Target:	Rubicon (KIAA0226)
Protein Characteristics:	AA 1-956
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Rubicon protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Rubcn Protein expressed in mammalien cells.
Sequence:	MRPEGAGMDL GGGDGERLLE KSRREHWQLL GNLKTTVEGL VSANCPNVWS KYGGLERLCR DMQNILYHGL IHDQVCCRQA DYWQFVKDIR WLSPHSALHV EKFI SLHESD QSDTDSVSER AVAELWLQHS LQCHCLSAQL RPLLGDRQYI RKFYTETAFL LSDAHVTAML QCLEAVEQNN PRLLAQIDAS MFARKQESPL LVTKSQSLTA LPGSTYTPPA SYAQHSYFGS SSSLQSMPQS SHSSERRSTS FSLSGPSWQP QEDRECLSPA ETQTTPAPLP SDSTLAQDSP LTAQEMSDST LTSPLEASWV SSQNDSPSDV SEGPEYLAIG NPAPHGRTAS CESHSSNGES SSSHLFSSSS SQKLESAASS LGDQEEGRQS QAGSVLRRSS FSEGQTAPVA SGTKKSHIRS HSDTNIASRG AAGGPRNITI IVEDPIAEGG QYLCSGEGMF RRPSEGQSLI SYLSEQDFGS CADLEKENAH FSISESLIAA IELMKCNMMS QCLEEEVEE ESDREIQEL KQKIRLRRQQ IRTKNLLPAY RETENGSFRV TSSSSQFSSR DSTQLSESGS AEDADDLEIQ DADIRRS AVS NGKSSFSQNL SHCFLHSTSA EAVAMGLLKQ FEGMQLPAAS ELEWL VPEHD APQKLLPIPD SLPISPDDGQ

## Product Details

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HADIYKLRIR VRGNLEWAPP RPQIIFNVHP APTRKIAVAK QNYRCAGCGI RTDPDYIKRL  
RYCEYLGKYF CQCCHENAQM VVPSRILRKW DFSKYVVSNF SKDLLLKIWN DPLFNVQDIN  
SALYRKVKLL NQVRLLRVQL YHMKNMFKTC RLAKELDSF DVVPGHLTED LHLYSLSDLT  
ATKKGELGPR LAELTRAGAA HVERCMLCQA KGFICEFCQN EEDVIFPFEL HKCRTCEECK  
ACYHKTCFKS GRCPCRERLQ ARRELLAKQS LESYLSDYEE EPTEALALEA TVLETT **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.**

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

Rubicon (KIAA0226)

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### Alternative Name:

Rubcn ([KIAA0226 Products](#))

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### Background:

Run domain Beclin-1-interacting and cysteine-rich domain-containing protein (Rubicon),FUNCTION: Inhibits PIK3C3 activity, under basal conditions negatively regulates PI3K complex II (PI3KC3-C2) function in autophagy. Negatively regulates endosome maturation and degradative endocytic trafficking and impairs autophagosome maturation process (PubMed:19270693). Can sequester UVRAG from association with a class C Vps complex

## Target Details

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(possibly the HOPS complex) and negatively regulates Rab7 activation (By similarity). {ECO:0000250|UniProtKB:Q92622, ECO:0000269|PubMed:19270693}., FUNCTION: Involved in regulation of pathogen-specific host defense of activated macrophages. Following bacterial infection promotes NADH oxidase activity by association with CYBA thereby affecting TLR2 signaling and probably other TLR-NOX pathways. Stabilizes the CYBA:CYBB NADPH oxidase heterodimer, increases its association with TLR2 and its phagosome trafficking to induce antimicrobial burst of ROS and production of inflammatory cytokines. Following fungal or viral infection (implicating CLEC7A (dectin-1)-mediated myeloid cell activation or RIGI-dependent sensing of RNA viruses) negatively regulates pro-inflammatory cytokine production by association with CARD9 and sequestering it from signaling complexes (By similarity). {ECO:0000250|UniProtKB:Q92622}.

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Molecular Weight: 106.9 kDa

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UniProt: [Q80U62](#)

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Pathways: [Autophagy](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months