Datasheet for ABIN7554814

OCRL Protein (AA 1-901) (His tag)

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Overview

Quantity:	1 mg
Target:	OCRL
Protein Characteristics:	AA 1-901
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OCRL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat OCRL Protein expressed in mammalien cells.
Sequence:	MEPPLPVGAQ PLATVEGMEM KGPLREPCAL TLAQRNGQYE LIIQLHEKEQ HVQDIIPINS HFRCVQEAEE TLLIDIASNS GCKIRVQGDW IRERRFEIPD EEHCLKFLSA VLAAQKAQSQ LLVPEQKDSS SWYQKLDTKD KPSVFSGLLG FEDNFSSMNL DKKINSQNQP TGIHREPPPP PFSVNKMLPR EKEASNKEQP KVTNTMRKLF VPNTQSGQRE GLIKHILAKR EKEYVNIQTF RFFVGTWNVN GQSPDSGLEP WLNCDPNPPD IYCIGFQELD LSTEAFFYFE SVKEQEWSMA VERGLHSKAK YKKVQLVRLV GMMLLIFARK DQCRYIRDIA TETVGTGIMG KMGNKGGVAV RFVFHNTTFC IVNSHLAAHV EDFERRNQDY KDICARMSFV VPNQTLPQLN IMKHEVVIWL GDLNYRLCMP DANEVKSLIN KKDLQRLLKF DQLNIQRTQK KAFVDFNEGE IKFIPTYKYD SKTDRWDSSG KCRVPAWCDR ILWRGTNVNQ LNYRSHMELK TSDHKPVSAL FHIGVKVVDE RRYRKVFEDS VRIMDRMEND FLPSLELSRR EFVFENVKFR QLQKEKFQIS NNGQVPCHFS FIPKLNDSQY CKPWLRAEPF EGYLEPNETV DISLDVYVSK DSVTILNSGE DKIEDILVLH

Product Details

	LDRGKDYFLT ISGNYLPSCF GTSLEALCRM KRPIREVPVT KLIDLEEDSF LEKEKSLLQM VPLDEGASER PLQVPKEIWL LVDHLFKYAC HQEDLFQTPG MQEELQQIID CLDTSIPETI PGSNHSVAEA LLIFLEALPE PVICYELYQR CLDSAYDPRI CRQVISQLPR CHRNVFRYLM AFLRELLKFS EYNSVNANMI ATLFTSLLLR PPPNLMARQT PSDRQRAIQF LLGFLLGSEE D **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 mammalien 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:	OCRL
Alternative Name:	OCRL (OCRL Products)
Background:	Inositol polyphosphate 5-phosphatase OCRL (EC 3.1.3.36) (EC 3.1.3.56) (Inositol polyphosphate 5-phosphatase OCRL-1) (OCRL-1) (Lowe oculocerebrorenal syndrome protein) (Phosphatidylinositol 3,4,5-triphosphate 5-phosphatase) (EC 3.1.3.86),FUNCTION: Catalyzes the hydrolysis of the 5-position phosphate of phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and phosphatidylinositol-3,4,5-bisphosphate (PtdIns(3,4,5)P3), with the greatest catalytic activity towards PtdIns(4,5)P2 (PubMed:7761412, PubMed:15474001, PubMed:9430698,

Target Details

	PubMed:10764818). Able also to hydrolyze the 5-phosphate of inositol 1,4,5-trisphosphate and of inositol 1,3,4,5-tetrakisphosphate (PubMed:7761412, PubMed:25869668). Regulates traffic in the endosomal pathway by regulating the specific pool of phosphatidylinositol 4,5-bisphosphate that is associated with endosomes (PubMed:21971085). Involved in primary cilia assembly (PubMed:22228094, PubMed:22543976). Acts as a regulator of phagocytosis, hydrolyzing PtdIns(4,5)P2 to promote phagosome closure, through attenuation of PI3K signaling (PubMed:22072788). {ECO:0000269|PubMed:10764818, ECO:0000269|PubMed:15474001, ECO:0000269|PubMed:21971085, ECO:0000269|PubMed:22072788, ECO:0000269|PubMed:22228094, ECO:0000269|PubMed:22543976, ECO:0000269|PubMed:25869668, ECO:0000269|PubMed:7761412, ECO:0000269|PubMed:9430698}.
Molecular Weight:	104.2 kDa
UniProt:	Q01968
Pathways:	Inositol Metabolic Process

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