Datasheet for ABIN7559542

RHNO1 Protein (AA 1-235) (His tag)

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Overview

Quantity:	1 mg
Target:	RHNO1
Protein Characteristics:	AA 1-235
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHNO1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rhno1 Protein expressed in mammalian cells.
Sequence:	MPPKKRRRQS QKAQLLFHQQ PLEGPKHHYE SCQQPITHTV QVPSKPIDQS TVTSWVSPQF DRAAESRFLI HWKPHRDQAR RPTRRSTCKF PRLTFESPQS SSSETLLLSN RVQPQNSEKD PPRRPLVPLF SPQSCGELSV HVPHSLPHVF APPDIQTPDS SVRDDPISPD QKENSFPSCI LGPGTPSSPE PGPVLVKDTP EEKYGIKVTW RRRRHLFAYL KEKGKLDGSQ FLVKI **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.

Product Details

- 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:	RHNO1
Alternative Name:	Rhno1 (RHNO1 Products)
Background:	RAD9, HUS1, RAD1-interacting nuclear orphan protein 1,FUNCTION: Involved in microhomology-mediated end-joining (MMEJ) DNA repair by promoting recruitment of polymerase theta (POLQ) to DNA damage sites during mitosis. MMEJ is an alternative non-homologous end-joining (NHEJ) machinery that takes place during mitosis to repair double-strand breaks in DNA that originate in S-phase. Accumulates in M-phase, following phosphorylation by PLK1, interacts with POLQ, enabling its recruitment to double-strand breaks for subsequent repair. Also involved in the DNA damage response (DDR) signaling in response to genotoxic stresses such as ionizing radiation (IR) during the S phase. Recruited to sites of DNA damage through interaction with the 9-1-1 cell-cycle checkpoint response complex and TOPBP1 in a ATR-dependent manner. Required for the progression of the G1 to S phase transition. Plays a role in the stimulation of CHEK1 phosphorylation. {ECO:0000250|UniProtKB:Q9BSD3}.
Molecular Weight:	26.8 kDa
UniProt:	Q8K3A4

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

