Datasheet for ABIN7554143

HUS1 Protein (AA 1-280) (His tag)

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Overview

Quantity:	1 mg
Target:	HUS1
Protein Characteristics:	AA 1-280
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HUS1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HUS1 Protein expressed in mammalian cells.
Sequence:	MKFRAKIVDG ACLNHFTRIS NMIAKLAKTC TLRISPDKLN FILCDKLANG GVSMWCELEQ ENFFNEFQME GVSAENNEIY LELTSENLSR ALKTAQNARA LKIKLTNKHF PCLTVSVELL SMSSSSRIVT HDIPIKVIPR KLWKDLQEPV VPDPDVSIYL PVLKTMKSVV EKMKNISNHL VIEANLDGEL NLKIETELVC VTTHFKDLGN PPLASESTHE DRNVEHMAEV HIDIRKLLQF LAGQQVNPTK ALCNIVNNKM VHFDLLHEDV SLQYFIPALS **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:

Product Details

	• 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	HUS1
Alternative Name:	HUS1 (HUS1 Products)
Background:	Checkpoint protein HUS1 (hHUS1),FUNCTION: Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair (PubMed:21659603). The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex (PubMed:21659603). Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER) (PubMed:21659603). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds, endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths, and DNA ligase I (LIG1) on long-patch base excision repair substrates (PubMed:21659603). The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase (PubMed:21659603). {ECO:0000269|PubMed:21659603}.
Molecular Weight:	31.7 kDa
UniProt:	O60921

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