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Product datasheet

Recombinant Human HUS1 protein ab101944

1 Image

Description

Product name	Recombinant Human HUS1 protein
Purity	> 95 % SDS-PAGE. ab101944 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	O60921
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSH**MKFRAKIVDGACLNHFTRI SNMIAKLAKTC TLRISPDKLNFILCDKLANGGVSMWCELEQENFFNEFQME GVSAENNEIY LELTSENLSRALKTAQNARALKIKLTNKHFPCLTVSVELLS MSSSSRIVT HDIPIKVIPRKLWKDLQEPVVPDPDVSIYLPVLKTMKSVVE KMKNISNHL VIEANLDGELNLKIETELVCVTTHFKDLGNPPLASESTHED RNVEHMAEV HIDIRKLLQFLAGQQVNPTKALCNIVNNKMVHFDLLHEDVS LQYFIPALS
Predicted molecular weight	34 kDa including tags
Amino acids	1 to 280
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab101944** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF

Form	Liquid

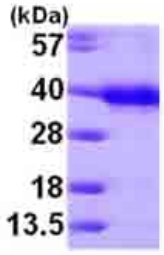
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.316% Tris HCl, 40% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). 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.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the HUS1 family.
Cellular localization	Nucleus. Cytoplasm. In discrete nuclear foci upon DNA damage. According to PubMed:14500360, localized also in the cytoplasm. DNA damage induces its nuclear translocation. Shuttles between the nucleus and the cytoplasm.

Images



SDS-PAGE - Recombinant Human HUS1 protein (ab101944)

15% SDS-PAGE analysis of 3µg ab101944.

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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