

## Product datasheet

# Recombinant Human HUS1 protein ab152054

### Description

<b>Product name</b>	Recombinant Human HUS1 protein	
<b>Purity</b>	> 95 % SDS-PAGE. Purity is greater than 95% as determined by reducing SDS-PAGE. ab152054 is 0.2 µM filtered.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">O60921</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MKFRAKIVDGAQLNHFRISNMIKLAKTCTLRISPDKLNFIL CDKLANG GVSMWCELEQENFFNEFQMEGVSAENNEIMLELTSENLS RALKTAQNARA LKIKLTNKHFPCLTVSVELLSMSSSSRMTHDIPKIVIPRKLW KDLQEPV VPDPDVSMLPVLKTMKSVVEKMKNISNHLVIEANLDGELN LKIETELVC VTTHFKDLGNPPLASESTHEDRNVEHMAEVHIDIRKLLQFL AGQQVNPTK ALCNIVNNKMVHFDLLHEDVSLQYFIPALS	
<b>Predicted molecular weight</b>	32 kDa	
<b>Amino acids</b>	1 to 280	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab152054** 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

**Form** Liquid

### Preparation and Storage

## Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.32% Tris HCl, 40% Glycerol, 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.

---

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors