# abcam

## Product datasheet

# Recombinant Human HERC5 protein - BSA and Azide free ab180352

# 1 Image

#### **Description**

Product name Recombinant Human HERC5 protein - BSA and Azide free

Purity > 90 % SDS-PAGE.

Expression system Escherichia coli

Accession Q9UII4

Protein length Protein fragment

Animal free No
Carrier free Yes

**Nature** Recombinant

**Species** Human

Sequence MGSSHHHHHH SSGLVPRGSH

MGSFDLTVRRNHLIEDVLNQLSQFENEDLRKELWVSFSG

EIGYDLGGVKK

EFFYCLFAEMIQPEYGMFMYPEGASCMWFPVKPKFEKKR

YFFFGVLCGLS

LFNCNVANLPFPLALFKKLLDQMPSLEDLKELSPDLGKNL

QTLLDDEGDN

FEEVFYIHFNVHWDRNDTNLIPNGSSITVNQTNKRDYVSKYI

**NYIFNDSV** 

KAVYEEFRRGFYKMCDEDIIKLFHPEELKDVIVGNTDYDW

KTFEKNARYE

PGYNSSHPTIVMFWKAFHKLTLEEKKKFLVFLTGTDRLQM

**KDLNNMKITF** 

CCPESWNERDPIRALTCFSVLFLPKYSTMETVEEALQEAI

**NNNRGFG** 

Predicted molecular weight 43 kDa including tags

Amino acids 681 to 1024

Tags His tag N-Terminus

Additional sequence information NP\_057407

**Description** Recombinant Human HERC5 protein (BSA and azide free)

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#### **Specifications**

Our Abpromise guarantee covers the use of ab180352 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

**Additional notes** Protein previously labeled as HECT E3 ubiquitin ligase.

#### **Preparation and Storage**

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCI, 2.4% Urea, 10% Glycerol (glycerin, glycerine)

#### **General Info**

**Function** Major E3 ligase for ISG15 conjugation. Acts as a positive regulator of innate antiviral response in

cells induced by interferon. Makes part of the ISGylation machinery that recognizes target proteins in a broad and relatively non-specific manner. Catalyzes ISGylation of IRF3 which results in sustained activation, it attenuates IRF3-PIN1 interaction, which antagonizes IRF3 ubiquitination and degradation, and boosts the antiviral response. Catalyzes ISGylation of influenza A viral NS1 which attenuates virulence; ISGylated NS1 fails to form homodimers and thus to interact with its RNA targets. Catalyzes ISGylation of papillomavirus type 16 L1 protein which results in dominant-negative effect on virus infectivity. Physically associated with polyribosomes, broadly modifies newly synthesized proteins in a cotranslational manner. In an interferon-stimulated cell, newly

translated viral proteins are primary targets of ISG15.

**Tissue specificity** Expressed in testis and to a lesser degree in brain, ovary and placenta. Found in most tissues at

low levels.

Sequence similarities Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.

Contains 5 RCC1 repeats.

Post-translational

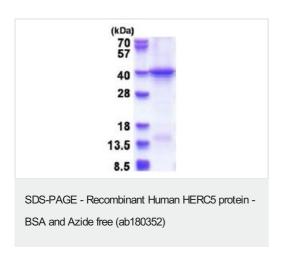
modifications

ISGylated.

Cytoplasm > perinuclear region. Associated with the polyribosomes, probably via the 60S

subunit.

#### **Images**



15% SDS-PAGE analysis of ab180352 (3 μg)

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