


Product datasheet

Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal ab137618

[4 Images](#)

Overview

Product name	Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal
Description	Rabbit polyclonal to HCF-1 / Host Cell Factor C1 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 49-269 of Human HCF-1/ Host Cell Factor C1.
Positive control	A549, HeLa, HepG2 cell lysates; Mouse brain; HeLa cells; BT474 xenograft tissue
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137618 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 208 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

Target

Function

Involved in control of the cell cycle. Also antagonizes transactivation by ZBTB17 and GABP2; represses ZBTB17 activation of the p15(INK4b) promoter and inhibits its ability to recruit p300. Coactivator for EGR2 and GABP2. Tethers the chromatin modifying Set1/Ash2 histone H3 'Lys-4' methyltransferase (H3K4me) and Sin3 histone deacetylase (HDAC) complexes (involved in the activation and repression of transcription, respectively) together. In case of human herpes simplex virus (HSV) infection, HCFC1 forms a multiprotein-DNA complex with the viral transactivator protein VP16 and POU2F1 thereby enabling the transcription of the viral immediate early genes.

Tissue specificity

Highly expressed in fetal tissues and the adult kidney. Present in all tissues tested.

Sequence similarities

Contains 5 Kelch repeats.

Domain

The HCF repeat is a highly specific proteolytic cleavage signal.
The kelch repeats fold into a 6-bladed kelch beta-propeller called the beta-propeller domain which mediates interaction with HCFC1R1.

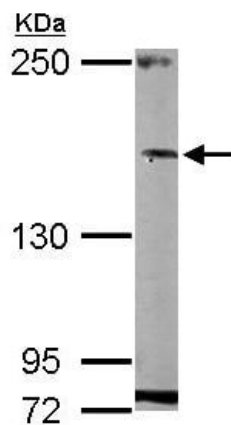
Post-translational modifications

Proteolytically cleaved at one or several PPCE--THET sites within the HCF repeats. Further cleavage of the primary N- and C-terminal chains results in a 'trimming' and accumulation of the smaller chains.
O-glycosylated.
Ubiquitinated. Lys-1807 and Lys-1808 are ubiquitinated both via 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains. BAP1 mediated deubiquitination of 'Lys-48'-linked polyubiquitin chains; deubiquitination by BAP1 does not seem to stabilize the protein.

Cellular localization

Cytoplasm. Nucleus. HCFC1R1 modulates its subcellular localization and overexpression of HCFC1R1 leads to accumulation of HCFC1 in the cytoplasm. Nuclear in general, but uniquely cytoplasmic in trigeminal ganglia, becoming nuclear upon HSV reactivation from the latent state.

Images

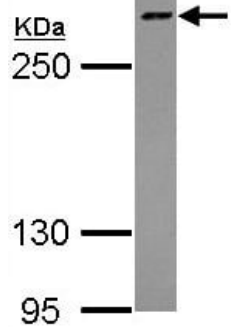


Western blot - Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)

Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)
at 1/500 dilution + Mouse brain whole cell lysate at 50 μ g

Predicted band size: 208 kDa

5% SDS PAGE

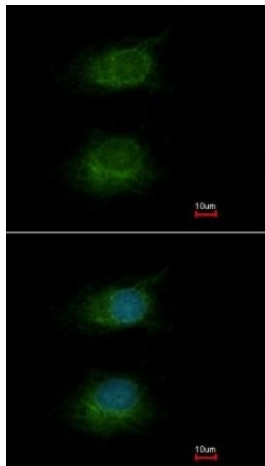


Western blot - Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)

Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)
at 1/500 dilution + HeLa whole cell lysate at 30 μ g

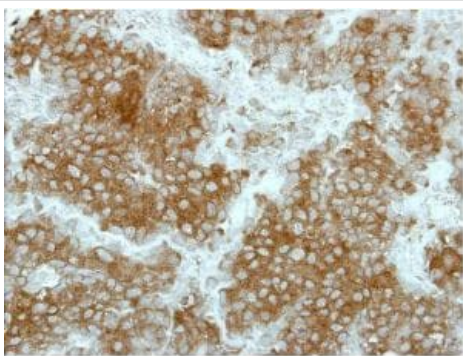
Predicted band size: 208 kDa

5% SDS PAGE



ab137618 at 1/200 dilution staining HCF-1 / Host Cell Factor C1 in methanol fixed HeLa cells by Immunofluorescence. Lower image costained with Hoerchst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)



ab137618 at 1/100 dilution, staining HCF-1 / Host Cell Factor C1 in paraffin embedded BT474 xenograft tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HCF-1 / Host Cell Factor C1 antibody - N-terminal (ab137618)

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