

## Human Host Cell Factor 1/HCFC1 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6254U 100 µg

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Host Cell Factor 1/HCFC1 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human Host Cell Factor 1/HCFC1 Ala1626-Val1836 Accession # P51610	
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.	
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.	
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## **BACKGROUND**

HCF-1 (Host cell factor; also called C1 factor and VCAF) is a blanket name for a group of polypeptides that are generated through the targeted proteolysis of a large 300 kDa transcriptional coactivator precursor. The precursor is widely expressed, and its products are posited to participate in multiple activities, such as mRNA processing, transcriptional coactivation, and cell cycle progression through G0/G1 transition. Human HCF-1 is 2035 amino acids (aa) in length. It is modular in structure, and contains a Kelch-repeat region (aa 32-313), an SP1/GABP basic binding sequence (aa 478-875), an acidic transactivation domain (aa 1530-1735), and a C-terminal NLS-containing Trp/Tyr/Phe-rich region (aa 1760-2035). Situated between the basic and acidic regions is an HCF repeat region (aa 1010-1439) that contains six 26 aa repeats that undergo autocatalytic cleavage. HCF-1 is O-glycosylated, phosphorylated and acetylated. In quiescent cells, the full-length 300 kDa precursor can be found in the cytoplasm, along with a presumed 50 kDa fragment that appears to represent some sequence between aa 300-1000. In activated cells, HCF-1 appears in the nucleus, and undergoes autocatalysis at one or more sites occurs distal to Glu at position 1019, 1081, 1110, 1295, 1323, and 1423. This generates multiple fragments that noncovalently associate with each other and appear as bands in SDS-Page that range from 100-175 kDa in size. This association is quite vigorous and requires aggressive treatment to achieve denaturation. There is one potential isoform that contains an alternative start site at Met100, a second isoform that shows a deletion of aa 1072-1101, a third isoform that exhibits a Leu substitution for aa 428-2035, and a final isoform that shows a deletion of aa 382-450. Over aa 1626-1836, human HCF-1 shares 95% aa identity with mouse HCF-1.

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/16/2025 Page 1 of 1

Bio-Techne®

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449

China | info.cn@bio-techne.com TEL: 400.821.3475