

# Product Datasheet

## CHFR Antibody (1H3-A12) - Azide and BSA Free H00055743-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 9**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/H00055743-M01](http://www.novusbio.com/H00055743-M01)

Updated 9/9/2025 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/H00055743-M01](http://www.novusbio.com/reviews/destination/H00055743-M01)



**H00055743-M01**

CHFR Antibody (1H3-A12) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1H3-A12
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Description	Novus Biologicals Mouse CHFR Antibody (1H3-A12) - Azide and BSA Free (H00055743-M01) is a monoclonal antibody validated for use in IHC, WB and ELISA. Anti-CHFR Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	55743
Gene Symbol	CHFR
Species	Human
Reactivity Notes	Human. Other species not tested.
Specificity/Sensitivity	CHFR - checkpoint with forkhead and ring finger domains
Immunogen	CHFR (AAH12072.1, 1 a.a. ~ 652 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MERPEEGKQSPPPQPWGRLRLGAEEGEPHVLLRKREWTIGRRRGCDLSFPS NKLVS GDHCRIVVDEKSGQVTLEDTSTSGTVINKLKVVKKQTCPLQTGDVIYLV YRKNEPEHNVAYLYESLSEKQGMTQESFDTSGAGAGRGADPRVPPSSPATQV CFEEPQPSTSTSDLFPTASASSTEPSPAGRERSSSCGSGGGGISP KGS GSPVA SDEVSSFASALPDRKTASFSSLEPQDQEDLEPVKKKMRGDGDLNGLQLLVA QPRRNAQTVHEDVRAAAGKPKDMEETLTCIICQDLLHDCVSLQPCMHTFCAAC YSGWMERSSLCPTCRCPVERICKNHILNVLVEAYLIQHPDKSRSEEDVQSM DA RNKITQDMLQPKVRRSFSDEEGSSEDLLELSDVDSESSDISQPYVVCRCPEY RRQAAQPPHCPAPEGEPGAPQALGDAPSTSVSLTTAVQDYVCPLQGSHALCT CCFQPMDDRVEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCGYCLAPFC ELNLGDKCLDGVLNNSYESDILKNYLATRGLTWKNMLTESLVALQRGVFLLSD YRVTGDTVLCYCCGLRSFRELTYQYRQNPASELPVAVTSR PDCYWG RNCRT QVKAHHAMKFNHICEQTRFKN
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Sandwich ELISA, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Knockdown Validated

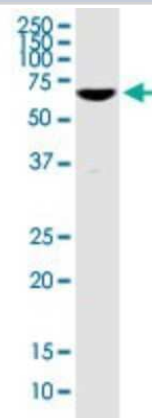


**Application Notes**

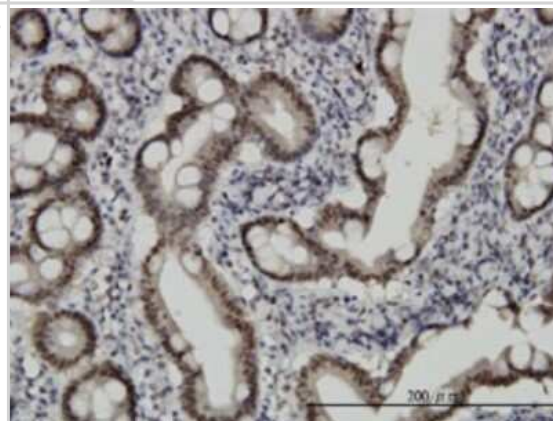
Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin), RNAi validation, and ELISA.

**Images**

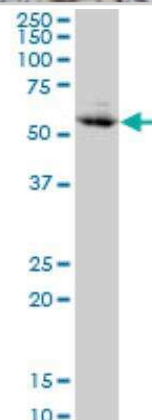
Western Blot: CHFR Antibody (1H3-A12) [H00055743-M01] - CHFR monoclonal antibody (M01), clone 1H3-A12. Analysis of CHFR expression in 293.



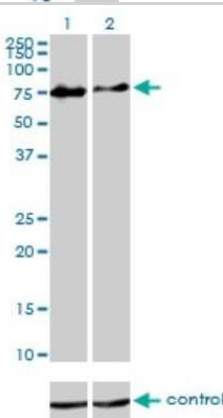
Immunohistochemistry-Paraffin: CHFR Antibody (1H3-A12) [H00055743-M01] - Analysis of monoclonal antibody to CHFR on formalin-fixed paraffin-embedded human small intestine. Antibody concentration 2 ug/ml.



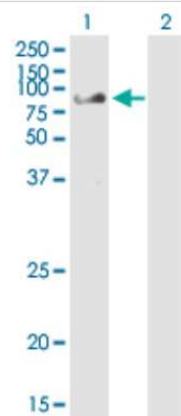
Western Blot: CHFR Antibody (1H3-A12) [H00055743-M01] - Western Blot analysis of CHFR expression in A-431 ( Cat # L015V1 ).



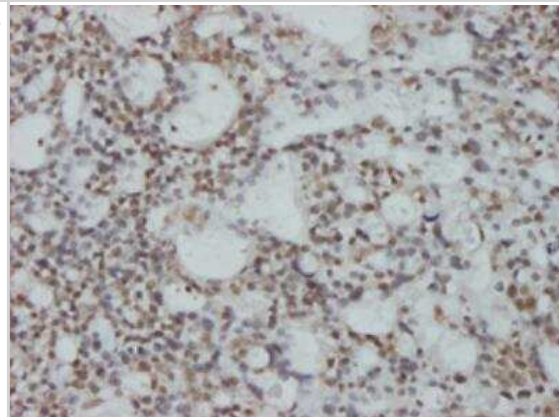
Western Blot: CHFR Antibody (1H3-A12) [H00055743-M01] - Analysis of CHFR over-expressed 293 cell line, cotransfected with CHFR Validated Chimera RNAi ( Cat # H00055743-R01V ) ( Lane 2 ) or non-transfected control ( Lane 1 ). Blot probed with CHFR monoclonal antibody ( M01 ), clone 1H3-A12 ( Cat # H00055743-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



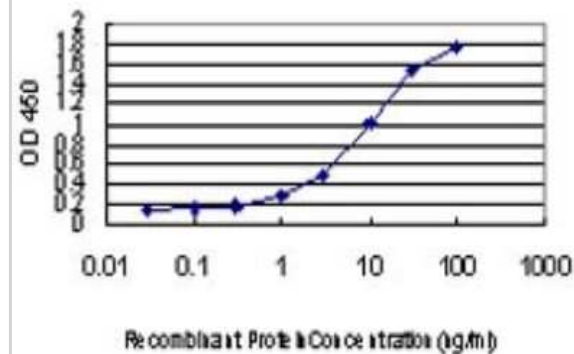
Western Blot: CHFR Antibody (1H3-A12) [H00055743-M01] - Analysis of CHFR expression in transfected 293T cell line by CHFR monoclonal antibody (M01), clone 1H3-A12. Lane 1: CHFR transfected lysate (Predicted MW: 72.1 KDa). Lane 2: Non-transfected lysate.



Immunohistochemistry-Paraffin: CHFR Antibody (1H3-A12) [H00055743-M01] - Immunoperoxidase of monoclonal antibody to CHFR on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue.



Sandwich ELISA: CHFR Antibody (1H3-A12) [H00055743-M01] - Detection limit for recombinant GST tagged CHFR is approximately 0.1 ng/ml as a capture antibody.



## Publications

Woo SR, Lee HJ, Oh SJ et al. Stabilization of HDAC1 via TCL1-pAKT-CHFR axis is a key element for NANOG-mediated multi-resistance and stem-like phenotype in immune-edited tumor cells. *Biochem Biophys Res Commun* 2018-07-29 [PMID: 30060952]

Zhang D, Xu XL, Li F et al. Upregulation of the checkpoint protein CHFR is associated with tumor suppression in pancreatic cancers. *Oncol Lett* 2017-10-20 [PMID: 29344247]

Hu SL, Huang DB, Sun YB et al. Pathobiologic implications of methylation and expression status of Runx3 and CHFR genes in gastric cancer. *Med Oncol*. 2010-03-19 [PMID: 20300977]

Fujita A, Yamamoto H, Imamura M et al. Expression level of the mitotic checkpoint protein and G2-M cell cycle regulators and prognosis in gastrointestinal stromal tumors in the stomach. *Virchows Arch*. 2011-12-22 [PMID: 22190007]

Kashima L, Idogawa M, Mita H et al. CHFR regulates the mitotic checkpoint by targeting PARP-1 for ubiquitination and degradation. *J Biol Chem*. 2012-02-15 [PMID: 22337872]

Privette LM, Weier JF, Nguyen HN et al. Loss of CHFR in human mammary epithelial cells causes genomic instability by disrupting the mitotic spindle assembly checkpoint. *Neoplasia*;10(7):643-52. 2008-07-01 [PMID: 18592005]

Milne AN, Weterman MA et al. Molecular analysis of primary gastric cancer, corresponding xenografts, 2 novel gastric carcinoma cell lines reveals novel alterations in gastric carcinogenesis. *Hum Pathol*;38(6):903-13. 2007-06-01 [PMID: 17376510]

Privette LM, Gonzalez ME, Ding L et al. Altered Expression of the Early Mitotic Checkpoint Protein, CHFR, in Breast Cancers: Implications for Tumor Suppression. *Cancer Res*;67(13):6064-74. 2007-07-01 [PMID: 17596595]

Gao YJ, Xin Y, Zhang JJ et al. Mechanism and pathobiologic implications of CHFR promoter methylation in gastric carcinoma. *World J Gastroenterol* 14(32):5000-7. 2008-08-28 [PMID: 18763281]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00055743-M01**

---

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/H00055743-M01](http://www.novusbio.com/reviews/submit/H00055743-M01)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

