

# Product Datasheet

## eRF1 Antibody (4F9H12) - BSA Free NBP2-52552

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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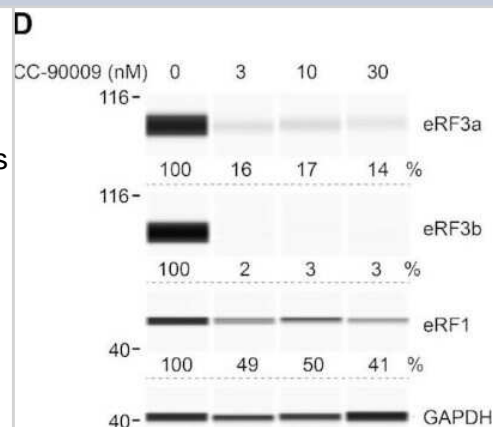
**NBP2-52552**

eRF1 Antibody (4F9H12) - BSA Free

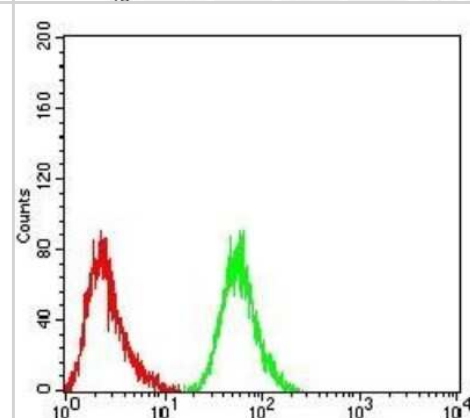
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4F9H12
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	49 kDa
Product Description	
Description	Novus Biologicals Mouse eRF1 Antibody (4F9H12) - BSA Free (NBP2-52552) is a monoclonal antibody validated for use in WB, ELISA, Flow and Simple Western. Anti-eRF1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2107
Gene Symbol	ETF1
Species	Human
Reactivity Notes	Use in Human reported in scientific literature (PMID:33764477).
Immunogen	Purified recombinant fragment of human eRF1 (AA: 288-437) expressed in E. Coli.
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, CyTOF-ready
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:100, Flow Cytometry 1:200-1:400, ELISA 1:10000, CyTOF-ready
Application Notes	This antibody is Cytof ready. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Caov-3, GM00798, HCT 116, HDQ-P1, NCI-H1299, SW900, separated by Size, antibody dilution of 1:100

## Images

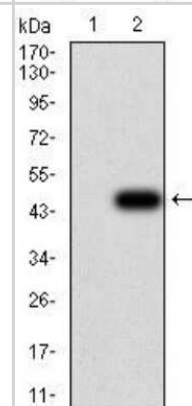
Western Blot: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Effect of CC-885 and CC-90009 on COL17A1 PTC readthrough. JEB01 keratinocytes derived from a JEB patient with a COL17A1 nonsense mutation (R688X/R688X) were exposed to the indicated concentrations of CC-90009 for 72 h and eRF3a, eRF3b and eRF1 (NBP2-52552) levels were determined using automated capillary electrophoresis western analysis. GAPDH was used as loading control. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33764477/>) licensed under a CC-BY license.



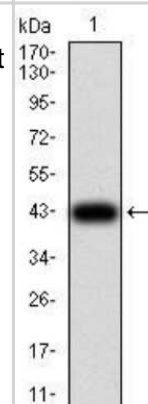
Flow Cytometry: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Analysis of HepG2 cells using RF1 mouse mAb (green) and negative control (red).



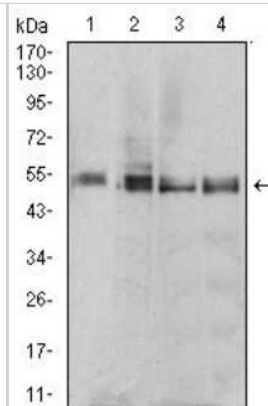
Western Blot: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Analysis using RF1 mAb against HEK293 (1) and RF1 (AA: 288-437)-hlgGfc transfected HEK293 (2) cell lysate.



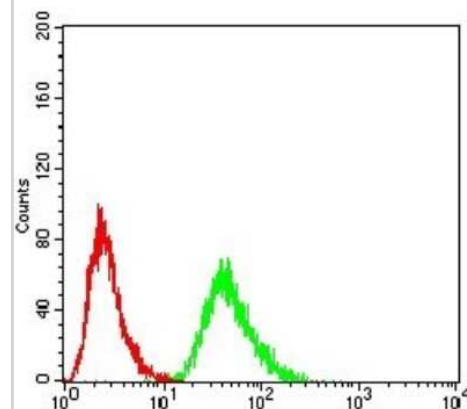
Western Blot: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Analysis using RF1 mAb against human RF1 (AA: 288-437) recombinant protein. (Expected MW is 43 kDa)



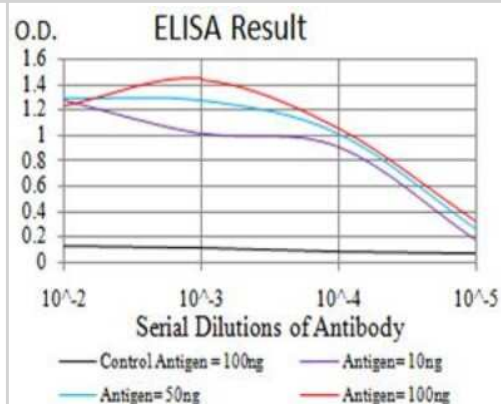
Western Blot: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Analysis using eRF1 mouse mAb against MCF-7 (1), T47D (2), MOLT4 (3), and Raji (4) cell lysate.



Flow Cytometry: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Analysis of HeLa cells using RF1 mouse mAb (green) and negative control (red).

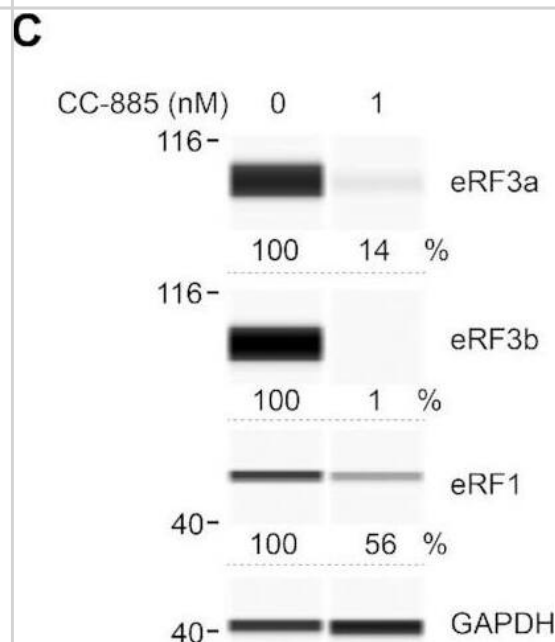


ELISA: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng).



Simple Western: eRF1 Antibody (4F9H12) - BSA Free [NBP2-52552] - Effect of CC-885 & CC-90009 on COL17A1 PTC readthrough. (A, B) HaCaT keratinocytes derived from an unaffected individual were exposed to various concentrations of CC-885 (A) or CC-90009 (B) with or without 100  $\mu$ g/ml gentamicin sulfate for 48 h & cell viability was measured using the MTT assay in triplicate samples ( $\pm$ SD).

Concentrations of CC-885 & CC-90009 are in nanomolar. (C, D) JEB01 keratinocytes derived from a JEB patient with a COL17A1 nonsense mutation (R688X/R688X) were exposed to the indicated concentrations of CC-885 (C) or CC-90009 (D) for 72 h & eRF3a, eRF3b & eRF1 levels were determined using automated capillary electrophoresis western analysis. GAPDH was used as loading control. (E, F) JEB01 keratinocytes were exposed to the indicated concentrations of CC-885 (E) or CC-90009 (F) in the presence or absence of 100 or 300  $\mu$ g/ml gentamicin sulfate for 72 h & Collagen XVII levels were measured by SDS-PAGE followed by traditional western blotting.  $\beta$ -actin was used as loading control. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33764477>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Baradaran-Heravi A, Balgi AD, Hosseini-Farahabadi S et al. Effect of small molecule eRF3 degraders on premature termination codon readthrough Nucleic acids research 2021-03-25 [PMID: 33764477] (WB, Human)





### **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 NBP2-52552**

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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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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.

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