# **Product Datasheet**

# EIF3A Antibody - BSA Free NBP1-18891

Unit Size: 100 ul

Store at 4C. Do not freeze.



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#### NBP1-18891

EIF3A Antibody - BSA Free

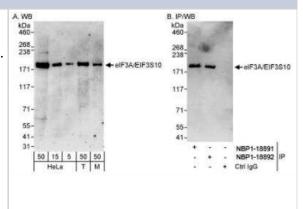
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Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Product Description	
Host	Rabbit
Gene ID	8661
Gene Symbol	EIF3A
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1 and 50 of human translation initiation factor 3 subunit A (eukaryotic translation initiation factor 3, subunit 10) using the numbering given in entry NP_003741.1 (GeneID 8661).

# Product Application Details

Applications	Western Blot, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, Immunoprecipitation 2-5 ug/mg lysate

#### Images

Western Blot: EIF3A Antibody [NBP1-18891] - Whole cell lysate from HeLa, 293T and mouse NIH3T3 cells. eIF3A/EIF3S10 was also immunoprecipitated by rabbit antieIF3A/ EIF3S10 antibody NBP1-18892.



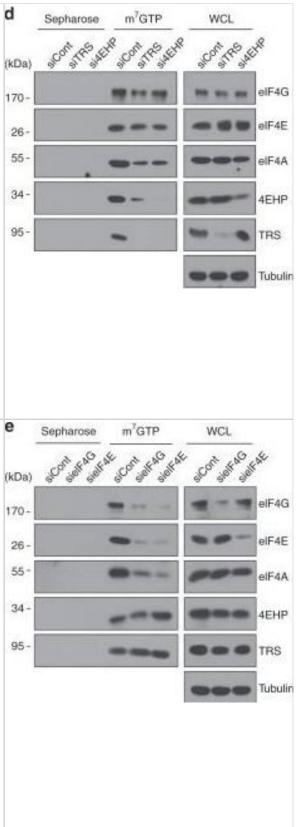


TRS functions similarly to eIF4G & acts as an eIF4F analog. a Pull-down 🗖 assay of co-expressed TRS-Strep with eIF4A- or eIF4G-FLAG in 293 T cells. TRS-Strep was pulled down with Strep-Tactin beads, & coprecipitation of eIF4A or 4 G was determined by immunoblotting with anti-FLAG antibody. EV, empty vector. \* indicates a nonspecific band. b Immunoassay of the co-expression of different combinations of plasmids in 293T cells. Myc-TRS was immunoprecipitated with anti-Myc antibody, & co-precipitation of other proteins was determined using tag-specific antibodies. c Immunoassay of co-expressed eIF4A-FLAG with GSTfused full-length TRS or its various domains in 293T cells. eIF4A-FLAG was immunoprecipitated with anti-FLAG antibody, & co-precipitated TRS proteins were determined by immunoblotting with anti-GST antibody. d Pull-down assay of endogenous translation initiation factors with m7GTP-Sepharose beads in 293 T cells transfected with siRNAs against TRS, 4EHP, or a non-targeting control (siCont). Cap-bound proteins were eluted from beads & immunoblotted with the indicated antibodies. Sepharose beads were used as a negative control. e Pull-down assay of endogenous translation initiation factors with m7GTP-Sepharose beads in 293T cells transfected with siRNAs against eIF4G, eIF4E, or siCont, & their suppression effects on cap-binding of other components, were determined as in (d). The data are representative of at least three experiments, each with similar results Image collected & cropped by CiteAb from the following publication

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#### **Publications**

Hassan Hayek, Lauriane Gross, Aurélie Janvier, Laure Schaeffer, Franck Martin, Gilbert Eriani, Christine Allmang eIF3 interacts with histone H4 messenger RNA to regulate its translation The Journal of Biological Chemistry 2021-03 -23 [PMID: 33766559]

Duan H, Zhang S, Zarai Y et al. eIF3 mRNA selectivity profiling reveals eIF3k as a cancer-relevant regulator of ribosome content The EMBO Journal 2023-06-15 [PMID: 37155573]

Kejiou NS, Ilan L, Aigner S et al. Pyruvate Kinase M (PKM) binds ribosomes in a poly-ADP ribosylation dependent manner to induce translational stalling Nucleic acids research 2023-05-24 [PMID: 37224531] (Western Blot, Human)

Zhao Y, Zhao H, Zhang D et al. YTHDF3 Facilitates eIF2AK2 and eIF3A Recruitment on mRNAs to Regulate Translational Processes in Oxaliplatin-Resistant Colorectal Cancer ACS chemical biology 2022-06-15 [PMID: 35708211]

Gong C, Krupka JA, Gao J Et al. Sequential inverse dysregulation of the RNA helicases DDX3X and DDX3Y facilitates MYC-driven lymphomagenesis Molecular cell 2021-08-18 [PMID: 34437837] (WB, Human)

Lin Y, Li F, Huang L et al. eIF3 Associates with 80S Ribosomes to Promote Translation Elongation, Mitochondrial Homeostasis, and Muscle Health Mol. Cell 2020-08-20 [PMID: 32589965] (WB)

Lin Y, Li F, Huang L et al. eIF3 promotes early translation elongation to ensure mitochondrial homeostasis and skeletal muscle health bioRxiv 1905-07-11 (WB, Human)

Jeong SJ, Park S, Nguyen LT et al. A threonyl-tRNA synthetase-mediated translation initiation machinery Nat Commun 2019-03-22 [PMID: 30902983] (WB, Human)

Toompuu M, Karblane K, Pata P et al. ABCE1 is essential for S phase progression in human cells. Cell Cycle. 2016-03-17 [PMID: 26985706] (WB, Human)

Lee AS, Kranzusch PJ, Cate JH. eIF3 targets cell-proliferation messenger RNAs for translational activation or repression Nature 2015-04-06 [PMID: 25849773] (WB, Human)

Chazal PE, Daguenet E, Wendling C et al. EJC core component MLN51 interacts with eIF3 and activates translation Proc Natl Acad Sci U S A 2013-03-25 [PMID: 23530232] (WB, Human)



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## 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@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

#### Products Related to NBP1-18891

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-84876PEP	EIF3A Recombinant Protein Antigen

#### 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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