

# Product Datasheet

## eIF4G1 Antibody - BSA Free

### NB100-268

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB100-268**

eIF4G1 Antibody - BSA Free

| 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) |

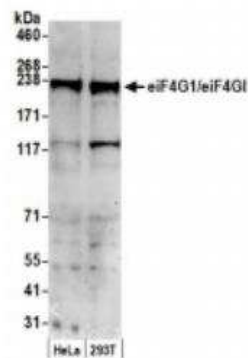
| Product Description |  |
|---------------------|--|
| Description         | Novus Biologicals Rabbit eIF4G1 Antibody - BSA Free (NB100-268) is a polyclonal antibody validated for use in WB and IP. Anti-eIF4G1 Antibody: Cited in 26 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                | Rabbit   |
| Gene ID             | 1981   |
| Gene Symbol         | EIF4G1   |
| Species             | Human, Porcine   |
| Reactivity Notes    | Porcine reactivity reported in scientific literature (PMID: 22013195).   |
| Immunogen           | The immunogen recognized by this antibody maps to a region between residues 575 and 625 of human Eukaryotic Initiation Factor 4 Gamma 1 (NP_886553.2).   |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Immunoprecipitation                                    |
| Recommended Dilutions       | Western Blot 1:2000 - 1:10000, Immunoprecipitation 2-10 ug/mg lysate |

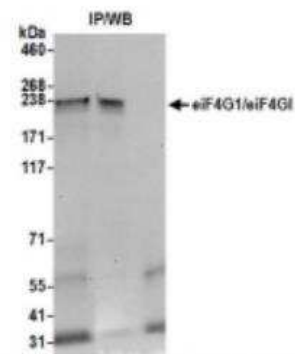


## Images

Western Blot: eIF4G1 Antibody [NB100-268] - Whole cell lysate (50 ug) from HeLa and HEK293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-eIF4G1/eIF4GI antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Immunoprecipitation: eIF4G1 Antibody [NB100-268] - Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-eIF4G1/eIF4GI antibody used for IP at 6 ug per reaction. eIF4G1/eIF4GI was also immunoprecipitated by rabbit anti-eIF4G1/eIF4GI antibody. For blotting immunoprecipitated eIF4G1/eIF4GI, rabbit anti-eIF4G1/eIF4GI antibody was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



## Publications

Mendez-Solis O, Bendjennat M, Naipauer J et al. Kaposi's sarcoma herpesvirus activates the hypoxia response to usurp HIF2alpha-dependent translation initiation for replication and oncogenesis *Cell reports* 2021-12-28 [PMID: 34965440] (WB)

Hernandez-Garcia AD, Columbus DA, Manjarin R et al. Leucine supplementation stimulates protein synthesis and reduces degradation signal activation in muscle of newborn pigs during acute endotoxemia *Am. J. Physiol. Endocrinol. Metab.* 2016-09-13 [PMID: 27624100] (WB, Porcine)

Galicia-Vazquez G, Cencic R, Robert F et al. A cellular response linking eIF4A1 activity to eIF4A11 transcription. *RNA* 2012-07-01 [PMID: 22589333]

Cencic R, Hall DR, Robert F et al. Reversing chemoresistance by small molecule inhibition of the translation initiation complex eIF4F. *Proc Natl Acad Sci U S A* 2011-01-01 [PMID: 21191102]

Sharma A, Hoeffler CA, Takayasu Y et al. Dysregulation of mTOR signaling in fragile X syndrome. *J Neurosci* 2010-01-01 [PMID: 20071534]

Chale-Rush A, Morris EP, Kendall TL et al. Effects of chronic overload on muscle hypertrophy and mTOR signaling in young adult and aged rats. *J Gerontol A Biol Sci Med Sci* 2009 Dec [PMID: 19808838]

Spurgeon ME, Ornelles DA. The adenovirus E1B 55-kilodalton and E4 open reading frame 6 proteins limit phosphorylation of eIF2alpha during the late phase of infection. *J Virol* 2009-10-01 [PMID: 19605483]

Suryawan A, Jeyapalan AS, Orellana RA et al. Leucine stimulates protein synthesis in skeletal muscle of neonatal pigs by enhancing mTORC1 activation. *Am J Physiol Endocrinol Metab* 2008-10-01 [PMID: 18682538]

Lin CJ, Cencic R, Mills JR et al. c-Myc and eIF4F are components of a feedforward loop that links transcription and translation. *Cancer Res* 2008-07-01 [PMID: 18593934]

Gelinas JN, Banko JL, Hou L et al. ERK and mTOR signaling couple beta-adrenergic receptors to translation initiation machinery to gate induction of protein synthesis-dependent long-term potentiation. *J Biol Chem* 2007-09-01 [PMID: 17635924]

Otulakowski G, Duan W, Gandhi S et al. Steroid and oxygen effects on eIF4F complex, mTOR, and ENaC translation in fetal lung epithelia. *Am J Respir Cell Mol Biol* 2007-10-01 [PMID: 17556672]

Vary TC, Anthony JC, Jefferson LS et al. Rapamycin blunts nutrient stimulation of eIF4G, but not PKCepsilon phosphorylation, in skeletal muscle. *Am J Physiol Endocrinol Metab* 2007-07-01 [PMID: 17389711]

More publications at <http://www.novusbio.com/NB100-268>





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### **Products Related to NB100-268**

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| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP]                 |
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |

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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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