

Product Datasheet

4EBP1 Antibody - BSA Free

NB200-157

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB200-157

4EBP1 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 Knockout (KO) Validated Rabbit 4EBP1 Antibody - BSA Free (NB200-157) is a polyclonal antibody validated for use in IHC and WB. Anti-4EBP1 Antibody: Cited in 45 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 1978 |
| Gene Symbol | EIF4EBP1 |
| Species | Human |
| Immunogen | The immunogen recognized by this antibody maps to a region between residue 75 and the C-terminus (residue 118) of human eukaryotic translation initiation factor 4E binding protein 1 using the numbering given in entry NP_004086.1 (GeneID 1978). |

| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Knockout Validated |
| Recommended Dilutions | Western Blot 1:1000-1:6000, Immunohistochemistry 1:5000-1:20000, Immunohistochemistry-Paraffin 1:5000-1:20000, Knockout Validated |
| Application Notes | For IHC: Epitope retrieval with citrate buffer pH 6.0 is recommended. |

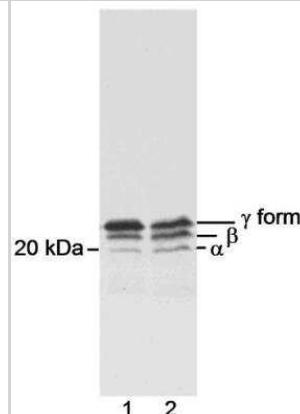


Images

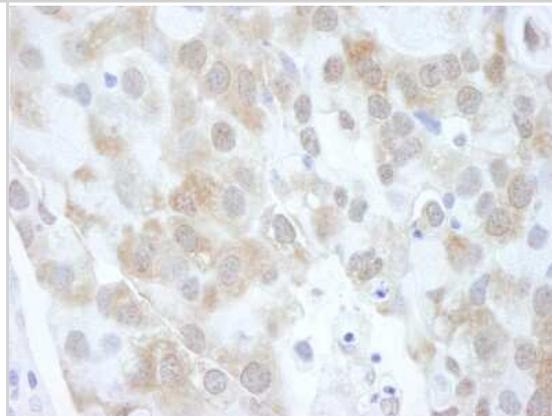
Western Blot: 4EBP1 Antibody [NB200-157] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and 4EBP1 knockout (KO) HeLa cell line. PVDF membrane was probed with 0.5 ug/ml of Rabbit Anti-Human 4EBP1 Polyclonal Antibody (Catalog # NB200-157) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for 4EBP1 at approximately 17-20 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



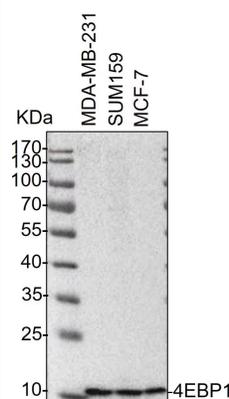
Western Blot: 4EBP1 Antibody [NB200-157] - Whole cell lysate (100 ug) from RINm5F insulinoma exposed to high or low concentration of leucine. Antibody used at 0.25 ug/ml.



Immunohistochemistry: 4EBP1 Antibody [NB200-157] - Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-4EBP1 used at a dilution of 1:20,000 (0.05ug/ml). Detection: DAB staining using Immunohistochemistry Accessory Kit.



Western Blot: Rabbit Polyclonal 4EBP1 Antibody [NB200-157] - Whole cell lysates from MDA-MB-231, SUM159 and MCF-7 cells were loaded with 50 ug/lane. 10% SDS-PAGE. 4EBP1 Antibody (NB200-157) was used for primary antibody: 1:2000, 4C, overnight. Image from a verified customer review.



Publications

Kobayashi M, Arias C, Garabedian A et al. Site-specific cleavage of the host poly(A) binding protein by the encephalomyocarditis virus 3C proteinase stimulates viral replication. *J Virol* 2012-10-01 [PMID: 22837200]

Lang SM, Kazi AA, Hong-Brown L et al. Delayed recovery of skeletal muscle mass following hindlimb immobilization in mTOR heterozygous mice. *PLoS One* 2012-01-01 [PMID: 22745686]

Winter JN, Fox TE, Kester M et al. Phosphatidic acid mediates activation of mTORC1 through the ERK signaling pathway. *Am J Physiol Cell Physiol* 2010-08-01 [PMID: 20427710]

Konsavage W, Zhang L, Vary T et al. Hyperoxia inhibits protein synthesis and increases eIF2alpha phosphorylation in the newborn rat lung. *Am J Physiol Lung Cell Mol Physiol* 2010-05-01 [PMID: 20139179]

Wilson FA, Suryawan A, Orellana RA et al. Feeding rapidly stimulates protein synthesis in skeletal muscle of neonatal pigs by enhancing translation initiation. *J Nutr* 2009-10-01 [PMID: 19692527]

Baum JI, Kimball SR, Jefferson LS et al. Glucagon acts in a dominant manner to repress insulin-induced mammalian target of rapamycin complex 1 signaling in perfused rat liver. *Am J Physiol Endocrinol Metab* 2009-08-01 [PMID: 19509187]

Tyler WA, Gangoli N, Gokina P et al. Activation of the mammalian target of rapamycin (mTOR) is essential for oligodendrocyte differentiation. *J Neurosci* 2009-05-01 [PMID: 19439614]

Norton LE, Layman DK, Bunpo P et al. The leucine content of a complete meal directs peak activation but not duration of skeletal muscle protein synthesis and mammalian target of rapamycin signaling in rats. *J Nutr* 2009-06-01 [PMID: 19403715]

Hwee DT, Bodine SC. Age-related deficit in load-induced skeletal muscle growth. *J Gerontol A Biol Sci Med Sci* 2009-06-01 [PMID: 19351696]

Pruznak AM, Kazi AA, Frost RA et al. Activation of AMP-activated protein kinase by 5-aminoimidazole-4-carboxamide-1-beta-D-ribo nucleoside prevents leucine-stimulated protein synthesis in rat skeletal muscle. *J Nutr* 2008-10-01 [PMID: 18806097]

Pruznak AM, Hong-Brown L, Lantry R et al. Skeletal and cardiac myopathy in HIV-1 transgenic rats. *Am J Physiol Endocrinol Metab* 2008-10-01 [PMID: 18713959]

Wilson FA, Suryawan A, Orellana RA et al. Fed levels of amino acids are required for the somatotropin-induced increase in muscle protein synthesis. *Am J Physiol Endocrinol Metab* 2008-10-01 [PMID: 18682537]

More publications at <http://www.novusbio.com/NB200-157>



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Products Related to NB200-157

| | |
|-------------|---|
| NBL1-10206 | 4EBP1 Overexpression Lysate |
| 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 |

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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