

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)

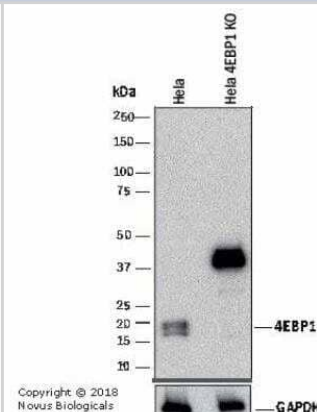
Product Description	
Host	Rabbit
Gene ID	1978
Gene Symbol	EIF4EBP1
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 75 and the C-terminus (residue 118) of human eukaryotic translation initiation factor 4E binding protein 1 using the numbering given in entry NP_004086.1 (GeneID 1978).

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, 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.

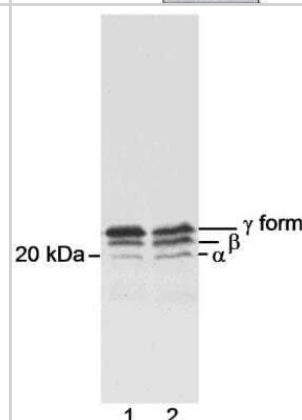


Images

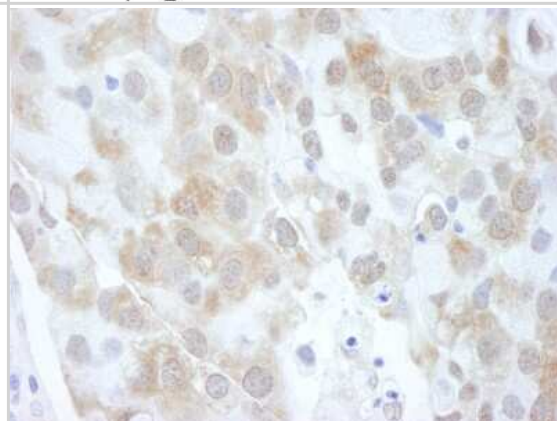
Western Blot: 4EBP1 Antibody [NB200-157] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and 4EBP1 knockout (KO) HeLa cell line. PVDF membrane was probed with 0.5 ug/ml of Rabbit Anti-Human 4EBP1 Polyclonal Antibody (Catalog # NB200-157) followed by HRP-conjugated 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.



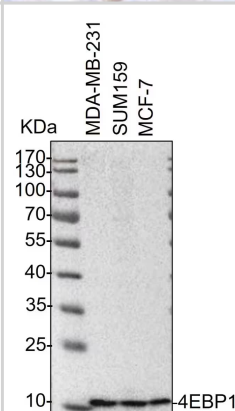
Western Blot: 4EBP1 Antibody [NB200-157] - Whole cell lysate (100 ug) from RINm5F insulinoma exposed to high or low concentration of leucine. Antibody used at 0.25 ug/ml.



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]
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- 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-ribofuranoside prevents leucine-stimulated protein synthesis in rat skeletal muscle. *J Nutr* 2008-10-01 [PMID: 18806097]
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- 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]
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Products Related to NB200-157

NBL1-10206	4EBP1 Overexpression Lysate
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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