Product Datasheet

CUGBP1/CELF1 Antibody (3B1) - BSA Free
NB200-316

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 13

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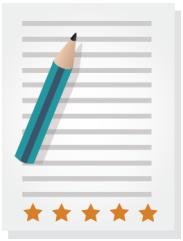
Updated 9/9/2025 v.20.1



NB200-316

CUGBP1/CELF1 Antibody (3B1) - BSA Free

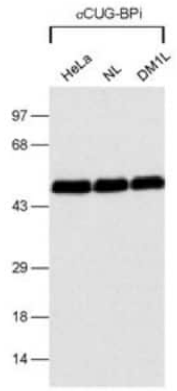
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3B1
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	50 kDa

Product Description	
Description	Novus Biologicals Mouse CUGBP1/CELF1 Antibody (3B1) - BSA Free (NB200-316) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF, Simple Western and IP. Anti-CUGBP1/CELF1 Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	10658
Gene Symbol	CELF1
Species	Human, Mouse, Rat, Porcine, Bovine, Primate, Rabbit
Immunogen	Full-length human CUGBP1 [UniProt# Q92879]

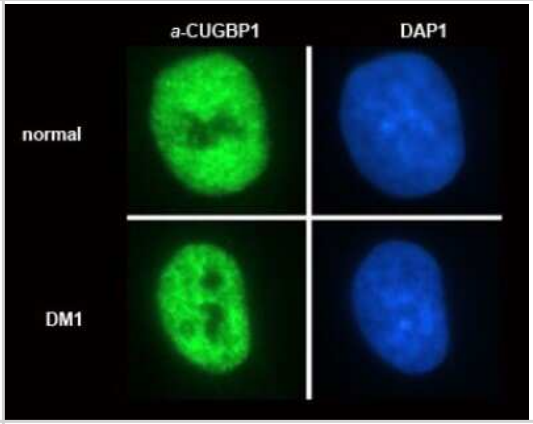
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, Simple Western 1:200, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation reported in scientific literature, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:100-1:500, Gel Super Shift Assays reported in scientific literature
Application Notes	In Western Blot, a band is observed at approx. 50 kDa. Nuclear staining can be seen in ICC/IF. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:200, apparent MW was 55 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

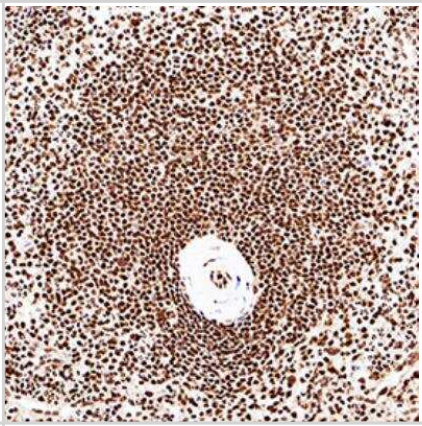
Western Blot: CUGBP1 Antibody (3B1) [NB200-316] - Detection of CUG-BP1 in several cell lysates.



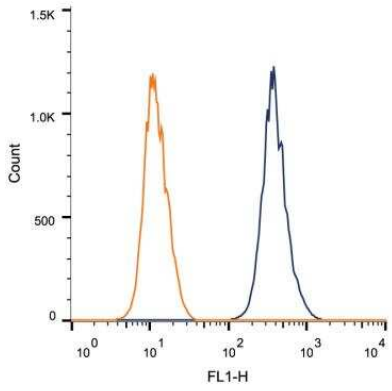
Immunocytochemistry/Immunofluorescence: CUGBP1 Antibody (3B1) [NB200-316] - Detection of the subcellular distribution of CUGBP1 (nuclear, non-nucleolar) in normal and DM1 (dystrophia myotonica) myoblasts.



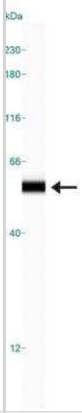
Immunohistochemistry-Paraffin: CUGBP1/CELF1 Antibody (3B1) [NB200-316] - IHC analysis of a formalin fixed paraffin-embedded (FFPE) human spleen using 1:100 conc. of CUGBP1/CELF1 antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 30 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 9.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 15 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Nuclear staining was observed in lymphocytes.



Flow Cytometry: CUGBP1 Antibody (3B1) [NB200-316] - Intracellular flow cytometric staining of 1 x 10^6 MCF-7 cells using CUGBP1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Simple Western: CUGBP1 Antibody (3B1) [NB200-316] - Simple Western lane view shows a specific band for CUGBP1 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Xiong L, Gong Y, Liu H et Al. circGlis3 promotes ?-cell dysfunction by binding to heterogeneous nuclear ribonucleoprotein F and encoding Glis3-348aa protein iScience 2023-12-09 [PMID: 38226164]

Markmiller S, Sathe S, Server KL et al. Persistent mRNA localization defects and cell death in ALS neurons caused by transient cellular stress Cell reports 2021-09-07 [PMID: 34496257]

de Haro M, Al-Ramahi I, Jones KR et al. Smaug/SAMD4A Restores Translational Activity of CUGBP1 and Suppresses CUG-Induced Myopathy. PLoS Genet 2013-04-01 [PMID: 23637619] (IP, WB, ICC/IF, Primate, Human)

Xiao Q, Ford AL, Xu J et al. Bcl-x Pre-mRNA Splicing Regulates Brain Injury after Neonatal Hypoxia-Ischemia J Neurosci 2012-09-26 [PMID: 23015448] (IF/IHC, ICC/IF, WB, EMSA, Mouse, Rat)

Kress, C et al. Inactivation of CUG-BP1/CELF1 causes growth, viability, and spermatogenesis defects in mice. Mol Cell Biol;27(3):1146-57. 2007-02-01 [PMID: 17130239] (WB, Mouse)

Ami Mankodi, MD, Patana Teng-Umnuay, MD, PhD, Matt Krym, BSc, Don Henderson, BSc, Maurice Swanson, PhD, Charles A Thornton, MD. Ribonuclear Inclusions in Skeletal Muscle in Myotonic Dystrophy Types 1 2. Ann Neurol; 54:760. 2003-01-01 [PMID: 14681885] (ICC/IF, Human)

Savkur RS, Philips AV, Cooper TA. Aberrant regulation of insulin receptor alternative splicing is associated with insulin resistance in myotonic dystrophy. Nat Genet;29(1):40-7. 2001-09-01 [PMID: 11528389] (WB, Human)

Hashem V, Galloway JN, Mori M, Willemsen R, Oostra BA, Paylor R, Nelson DL. Ectopic expression of CGG containing mRNA is neurotoxic in mammals. Hum Mol Genet;18(13):2443-51. 2009-07-01 [PMID: 19377084] (IHC-P, Mouse)

Lin X, Miller JW, Mankodi A, Kanadia RN, Yuan Y, Moxley RT, Swanson MS, Thornton CA. Failure of MBNL1-dependent post-natal splicing transitions in myotonic dystrophy. Hum Mol Genet;15(13):2087-97. 2006-07-01 [PMID: 16717059] (WB, ICC/IF, Human, Mouse)

Ward AJ, Rimer M, Killian JM, Dowling JJ, Cooper TA. CUGBP1 overexpression in mouse skeletal muscle reproduces features of myotonic dystrophy type 1. Hum Mol Genet;19(18):3614-22. 2010-09-15 [PMID: 20603324]

Orengo JP, Chambon P, Metzger D, Mosier DR, Snipes GJ, Cooper TA. Expanded CTG repeats within the DMPK 3' UTR causes severe skeletal muscle wasting in an inducible mouse model for myotonic dystrophy. Proc Natl Acad Sci U S A;105(7):2646-51. 2008-02-19 [PMID: 18272483]

Mankodi A, Lin X, Blaxall BC, Swanson MS, Thornton CA. Nuclear RNA foci in the heart in myotonic dystrophy. Circ Res;97(11):1152-5. 2005-11-25 [PMID: 16254211] (IHC-Fr, Human)

More publications at http://www.novusbio.com/NB200-316

Procedures

Western Blot Protocol for CUGBP1 Antibody (NB200-316)

Procedure Guide for NB 200-316 Monoclonal Anti-CUG

Western Blot Procedure

1) Wet Nitrocellulose membrane with PBS + NP40 [PN].
2) Pour off PN.
3) Dilute anti-CUG (catalog# NB 200-316) in 5%NFDM + NP40.
4) Incubate the primary antibody with the membrane for 1 hour, at room temperature (RT), gently rocking.
5) Wash 1x with PN for 10 minutes. Wash 2x with PN for 5 minutes, each.
6) Dilute anti-mouse-HRP (Amersham) in 5%NFDM + NP40 at 1:5,000.
7) Incubate the secondary antibody with the membrane for 45 minutes, at RT, gently rocking.
8) Wash 1x with PN for 10 minutes. Wash 2x with PN for 5 minutes, each.
9) Wash 1x with PBS for 5 minutes.
10) Develop using Amersham ECL components.
NOTE: HeLa nuclear cell extracts can be used as a positive control for this antibody.

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Products Related to NB200-316

NBL1-09604	CUGBP1/CELF1 Overexpression Lysate
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]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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