

Product Datasheet

MafA Antibody - BSA Free NB400-137

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB400-137

MafA 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 MafA Antibody - BSA Free (NB400-137) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and ChIP. Anti-MafA Antibody: Cited in 46 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	389692
Gene Symbol	MAFA
Species	Human, Mouse
Reactivity Notes	Human reactivity reported in the scientific literature (PMID: 22665223).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 300 and the C-terminus (residue 359) of mouse v-maf musculoaponeurotic fibrosarcoma oncogene homolog A using the numbering given in entry NP_919331.1 (GeneID 378435).

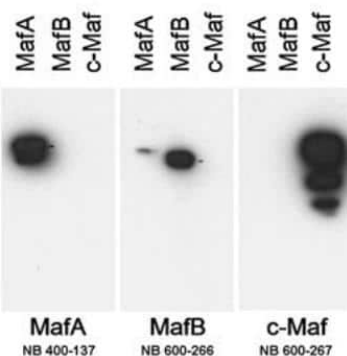
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:1000 to 1:3000, Immunohistochemistry-Frozen 1:10-1:500, Gel Super Shift Assays 1 to 5 ug/20 ul reaction, Chromatin Immunoprecipitation (ChIP)
Application Notes	A band ~36-40 kDa is seen in WB analysis. Use in IHC-P was reported in the scientific literature (PMID: 22665223). In some cases, the antibody may be diluted further than indicated. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use. Use in ICC/IF and in IHC-Frozen reported in scientific literature (PMID 23967072). Chip reported in scientific literature (PMID: 26314560).



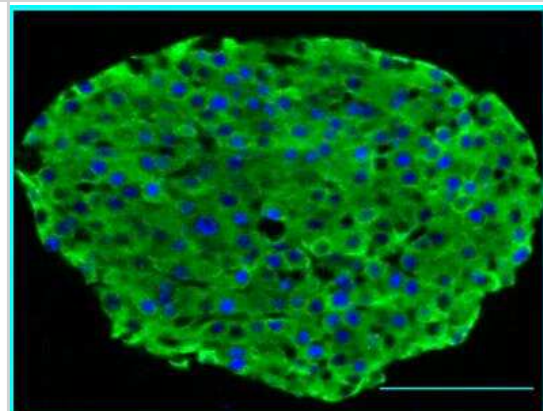
Images

Western Blot: MafA Antibody [NB400-137] - Nuclear extract (6 ug) from HeLa cells transfected with MafA, MafB or cMaf expression constructs. Affinity purified anti-MafA antibody (NB400-137), anti-MafB antibody (NB600-266) or anti-c-Maf antibody (NB600-267). Each antibody was used at 0.5 ug/ml.

Western Blot

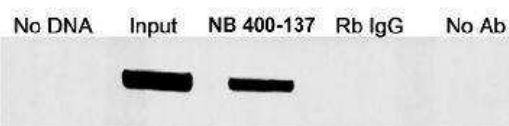


Immunohistochemistry-Paraffin: MafA Antibody [NB400-137] - Immunohistochemical staining of MafA (blue) and insulin (green) in mouse pancreas. Image from verified customer review.



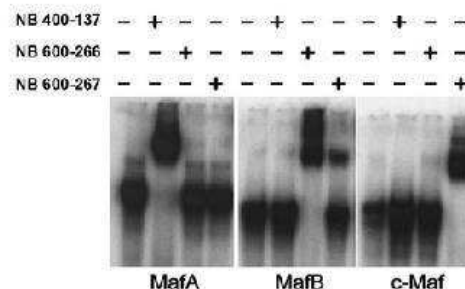
Western Blot: MafA Antibody [NB400-137] - Binding of MafA to the enhancer region of the endogenous insulin gene. Samples: Immunoprecipitated cross-linked DNA from betaTC-3 cells was analyzed by PCR. As controls, reactions were run with no DNA, with input chromatin, with DNA obtained after precipitation with rabbit IgG or without antibody (lanes 1 through 5, respectively). Antibody: Affinity purified rabbit anti-MafA antibody (NB 400-137).

βTC-3 ChIP Assay



Gel Super Shift Assays: MafA Antibody [NB400-137] - Electrophoretic Mobility Shift of MafA, MafB and c-Maf. Samples: Nuclear extract (6 ug) from HeLa cells transfected with MafA, MafB or c-Maf expression constructs. Antibodies: Affinity purified anti-MafA antibody NB400-137, anti-MafB antibody NB600-266 or anti-c-Maf antibody NB600-267.

Electrophoretic Mobility Shift Assay



Publications

Becker A, Wardas B, Salah H et al. Cav³ Regulates Ca²⁺ Signaling and Insulin Expression in Pancreatic β -Cells in a Cell-Autonomous Manner Diabetes 2021-11-01 [PMID: 34426509]

Hoang PT, Chalif JI, Bikoff JB, Jessell TM et Al. Subtype Diversification and Synaptic Specificity of Stem Cell-Derived Spinal Interneurons Neuron 2018-10-12 [PMID: 30308166]

Worthy AE, Anderson JT, Lane AR et Al. Spinal V1 inhibitory interneuron clades differ in birthdate, projections to motoneurons, and heterogeneity Elife 2024-11-28 [PMID: 39607843]

Lin HH, Yu IS, Cheng MS et Al. Spint1 disruption in mouse pancreas leads to glucose intolerance and impaired insulin production involving HEPsin/MAFA Nat Commun 2024-12-03 [PMID: 39627229]

Mahaddalkar PU, Scheibner K, Pfluger S et al. Generation of pancreatic β cells from CD177(+) anterior definitive endoderm Nature Biotechnology 2020-09-01 [PMID: 32341565]

E Yoshihara, C O'Connor, E Gasser, Z Wei, TG Oh, TW Tseng, D Wang, F Cayabyab, Y Dai, RT Yu, C Liddle, AR Atkins, M Downes, RM Evans Immune-evasive human islet-like organoids ameliorate diabetes Nature, 2020-08-19;0 (0):. 2020-08-19 [PMID: 32814902]

Sweeney LB, Bikoff JB, Gabitto MI et al. Origin and Segmental Diversity of Spinal Inhibitory Interneurons. Neuron 2018-01-17 [PMID: 29307712] (ICC/IF, Mouse)

Wei Z, Yoshihara E, He N et al. Vitamin D Switches BAF Complexes to Protect β Cells Cell 2018-05-17 [PMID: 29754817] (Mouse)

Akai R, Hosoda A, Yoshino M, Iwawaki T. Constitutive role of GADD34 and CReP in cancellation of phospho-eIF2 α -dependent translational attenuation and insulin biosynthesis in pancreatic β cells. Genes Cells 2015-08-28 [PMID: 26314560] (Chemotaxis, Mouse)

Blanchet E, Van de Velde S, Matsumura S et al. Feedback Inhibition of CREB Signaling Promotes Beta Cell Dysfunction in Insulin Resistance Cell Rep. 2015-02-24 [PMID: 25704817] (WB, ICC/IF, Mouse)

Alejandro EU, Gregg B, Wallen T et al. Maternal diet-induced microRNAs and mTOR underlie β cell dysfunction in offspring. J Clin. Invest. 2014-09-02 [PMID: 25180600]

Francius C, Harris A, Rucchin V et al. Identification of Multiple Subsets of Ventral Interneurons and Differential Distribution along the Rostrocaudal Axis of the Developing Spinal Cord. PLoS One. 2013-08-15 [PMID: 23967072] (IHC-Fr, ICC/IF, Mouse)

More publications at <http://www.novusbio.com/NB400-137>



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Products Related to NB400-137

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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