Product Datasheet

MAZ Antibody - BSA Free
NB100-86984

Unit Size: 100 ul

Store at 4C. Do not freeze.

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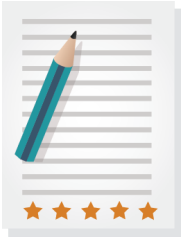
Updated 2/21/2025 v.20.1



NB100-86984

MAZ 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

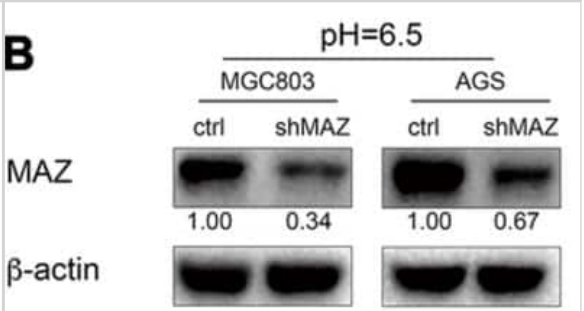
Host	Rabbit
Gene ID	4150
Gene Symbol	MAZ
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 427 and 477 of human MYC-associated zinc finger protein using the numbering given in entry BAA33064.1 (GeneID 4150).

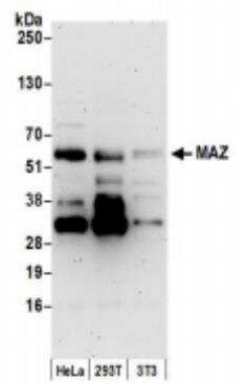
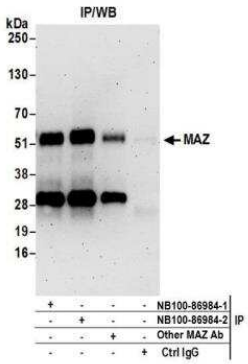
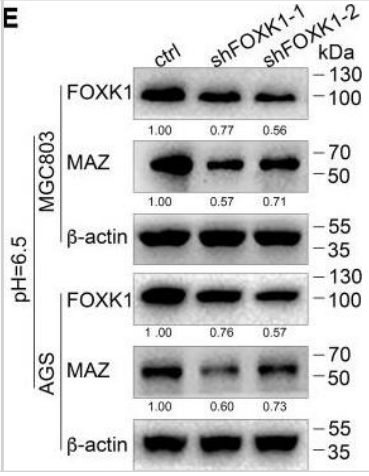
Product Application Details

Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:500 - 1:2000, Immunoprecipitation 2 - 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:500 - 1:2000, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 25749382).

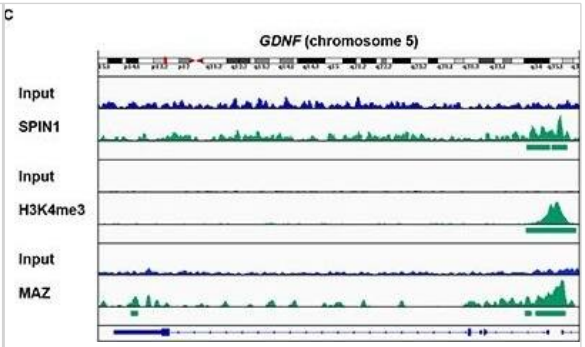
Images

Western Blot: MAZ Antibody [NB100-86984] - Western blotting was performed to detect the protein expression of MAZ in GC cells treated with ctrl or shMAZ in an acidic microenvironment. Image collected and cropped by CiteAb from the following publication (https://www.aging-us.com/lookup/doi/10.18632/aging.103013) licensed under a CC-BY license.



Western Blot: MAZ Antibody [NB100-86984] - Whole cell lysate (50 ug) from HeLa, 293T, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MAZ antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.	
Immunohistochemistry-Paraffin: MAZ Antibody [NB100-86984] - FFPE section of human prostate carcinoma. Antibody: Affinity purified rabbit antiMAZ/SAF-1 used at a dilution of 1:1,000 (1ug/ml). Detection: DAB	
Immunoprecipitation: MAZ Antibody [NB100-86984] - Detection of human MAZ by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-MAZ antibody NB100-86984 (lot NB100-86984-2) used for IP at 6 ug per reaction. MAZ was also immunoprecipitated by a previous lot of this antibody (lot NB100-86984-1) and another rabbit anti-MAZ antibody. For blotting immunoprecipitated MAZ, NB100-86984 was used at 1 ug/ml. Detection: . Chemiluminescence with an exposure time of 3 minutes.	
Western Blot: MAZ Antibody [NB100-86984] - MAZ is a new transcription activation target of FOXK1. (A) Analysis of the 9969 overlapping FOXK1 loci for overrepresented sequence elements identified significantly enriched FOXK1-like DNA-binding motifs, & the results showed that 12.92% of the FOXK1 genomic loci contained at least one of the motifs. (B) Potential binding sites for FOXK1 at the 5'-UTR of MAZ. (C) FOXK1 & MAZ coexpression in the TCGA GC dataset was analyzed by querying the open database ChIPBase v2.0 (r: 0.3449, p = 5.1e-14). The mRNA (D) & protein (E) levels of MAZ in MGC803 & AGS cells were attenuated by the silencing of FOXK1. The data are presented as the means ± S.D.s from three independent experiments. ** P < 0.01, *** P < 0.001, & **** P < 0.0001. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32268297), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Chromatin Immunoprecipitation: MAZ Antibody [NB100-86984] - SPIN1 controls liposarcoma cell proliferation & survival by enhancing GDNF expression in cooperation with the transcription factor MAZ(A) Venn diagram depicting the overlap of SPIN1 & MAZ locations at gene promoters in T778 cells. (B) Intensity profiles for SPIN1 & MAZ occupancy of 5,680 gene promoters around the transcription start site (TSS –/+ 2000 bp). (C) Intensity profiles of presence of SPIN1, H3K4me3, & MAZ at the GDNF gene in T778 cells determined by ChIP-sequencing. (D, E) Immunoprecipitation (IP) of endogenous SPIN1 & MAZ from T778 cell extracts with antibodies against SPIN1 or MAZ as indicated. (F, G) Quantitative RT-PCR analysis of MAZ & GDNF expression in T778 cells stably transfected with control miRNA (miCtrl) or miRNA directed against MAZ [miMAZ(1)] (F) or MAZ expression plasmid (MAZ OE) (G) Expression of miMAZ or MAZ was induced by doxycycline. Uninduced cells served as control. (F, G) Error bars represent +/– SEM, *p < 0.05, **p < 0.01. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25749382), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Xingjie Ren, Han Yang, Jovia L Nierenberg, Yifan Sun, Jiawen Chen, Cooper Beaman, Thu Pham, Mai Nobuhara, Maya Asami Takagi, Vivek Narayan, Yun Li, Elad Ziv, Yin Shen High-throughput PRIME-editing screens identify functional DNA variants in the human genome. Molecular cell 2023-12-25 [PMID: 38134886]

Wang Y, Sun L et al. Inhibiting Forkhead box K1 induces autophagy to reverse epithelial-mesenchymal transition and metastasis in gastric cancer by regulating Myc-associated zinc finger protein in an acidic microenvironment. Aging (Albany NY) 2020-08-04 [PMID: 32268297] (WB, Human)

Chen Y, Li H, Liu C et al. MAZ-LINC00645-GP73 Axis Promotes Hepatocellular Carcinoma Proliferation and Metastasis Research Square 2020-08-28 (Chemotaxis, Human)

Franz H, Greschik H, Willmann D et al. The histone code reader SPIN1 controls RET signaling in liposarcoma. Oncotarget 2015-03-10 [PMID: 25749382] (Chemotaxis)

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Products Related to NB100-86984

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00004150-P01-10ug	Recombinant Human MAZ GST (N-Term) Protein

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