

# Product Datasheet

## MBP Antibody - BSA Free NB110-79873

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB110-79873**

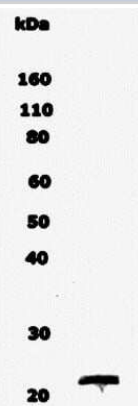
MBP Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	22 kDa
Product Description	
Host	Rabbit
Gene ID	4155
Gene Symbol	MBP
Species	Human, Mouse, Rat
Reactivity Notes	Human, mouse and rat.
Marker	Oligodendrocyte Marker, Myelin Marker
Specificity/Sensitivity	Myelin Basic Protein, Reacts with residues 49-62 of the 33 kDa human, mouse and rat MBP protein. Antibody detects primarily the 22 kDa isoform.
Immunogen	Reacts with residues 49-62 of Isoforms 5 and 6 of the human protein. The immunogen corresponds to Isoform 1 between amino acids 182-195 of the 33 kDa isoform. The antibody also detects mouse and rat MBP protein. The antibody primarily detects a 22 kDa band.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:500-1:1000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:200, Immunohistochemistry Free-Floating
Application Notes	<p>This antibody is useful in ELISA, Immunocytochemistry, Immunohistochemistry 1:100-1:200 and Western Blot. In WB a band is seen at approx. 22 kDa representing MBP. Use in Immunohistochemistry free-floating reported in scientific literature (PMID 26616873).</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. 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.</p>



## Images

Western Blot: MBP Antibody [NB110-79873] - WB analysis of Myelin Basic Protein (MBP) in 10ug of normal brain lysate with antibody NB110-79873 at 1:500 dilution.



Simple Western: MBP Antibody [NB110-79873] - Simple Western lane view shows a specific band for MBP in 0.5 mg/ml of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image generated by internal validation.



## Publications

Dorigatti, A O, Hussong, S A Et al. Primary neuron and astrocyte cultures from postnatal *Callithrix jacchus*: a non-human primate in vitro model for research in neuroscience, nervous system aging, and neurological diseases of aging. *Geroscience* 2021-02-01 [PMID: 33063253] (WB)

Borrett MJ, Innes BT, Jeong D et al. Single-Cell Profiling Shows Murine Forebrain Neural Stem Cells Reacquire a Developmental State when Activated for Adult Neurogenesis *Cell Rep* 2020-08-11 [PMID: 32783944]

Details:

Citation using the Biotin format of this antibody.

Giusti Delphine, Bini Estela, Terryn Christine et al. NET Formation in Bullous Pemphigoid Patients With Relapse Is Modulated by IL-17 and IL-23 Interplay. *Frontiers in Microbiology* 2019-04-04 [PMID: 31019514] (IHC-P, Human)

Brescia AC, Simonds MM, McCahan SM et al. Prior to extension, Transcriptomes of fibroblast-like Synoviocytes from extended and Polyarticular juvenile idiopathic arthritis are indistinguishable. *Pediatr Rheumatol Online J* 2018-01-08 [PMID: 29310668] (ELISA, Human)

Chaudhary P, Marracci G, Galipeau D et al. Lipoic acid reduces inflammation in a mouse focal cortical experimental autoimmune encephalomyelitis model. *J. Neuroimmunol.* 2015-12-15 [PMID: 26616873] (IHC-FrFI, Mouse)

Details:

MBP Antibody was used for IHC on free floating sections in experiments involving mouse focal cortical experimental autoimmune encephalomyelitis model. The immunoassay implicated - 30um brain sections, permeabilization, blocking with 0.5% fish skin gelatin/3% BSA, use of primary at 1:100 dilution with ON 4C incubation, detection with AF conjugated secondary (data in Fig 5b & e; Supplementary Fig 2).



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### **Products Related to NB110-79873**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
NBP2-24891	Rabbit IgG Isotype Control
NB110-79873B	MBP Antibody [Biotin]

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### **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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