

Datasheet for ABIN3043688
anti-MBP antibody (C-Term)



[Go to Product page](#)

2 Images

13 Publications

Overview

Quantity:	100 µg
Target:	MBP
Binding Specificity:	AA 182-197, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myelin basic protein(MBP) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Myelin Basic Protein(182-197aa KLGGRDSRSGSPMARR), identical to the related rat and mouse sequences.
Sequence:	KLGGDRSRSG SPMARR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Myelin basic protein(MBP) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: myelin basic protein Protein Name: Myelin basic protein(MBP)

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: MBP

Alternative Name: Myelin basic protein ([MBP Products](#))

Background: Myelin basic protein(MBP) is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the central nervous system and the peripheral nervous system, respectively. It is most abundant in hemopoietic system and contains seven exons distributed over 32-34 kb. MBP isolated from MS brain may differ in charge microheterogeneity which would affect antigenic determinants. MBP is mapped to chromosome 18q22-23. Failure in this gene expression would be correlated in the central white matter with extrapyramidal system degeneration signs. Moreover, it is a candidate autoantigen in the disease multiple sclerosis.

Synonyms: GDB antibody|Golli MBP antibody|Hemopoietic MBP antibody|HMBPR antibody|HUGO antibody|MBP antibody|MBP_HUMAN antibody|MGC99675 antibody|MLD antibody|Myelin A1 Protein antibody|Myelin basic protein antibody|Myelin Deficient antibody|Myelin Membrane Encephalitogenic Protein antibody|OTTHUMP00000163776 antibody|OTTHUMP00000174387 antibody|OTTHUMP00000174388 antibody|SHI antibody|Shiverer antibody|SP antibody

UniProt: [P02686](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

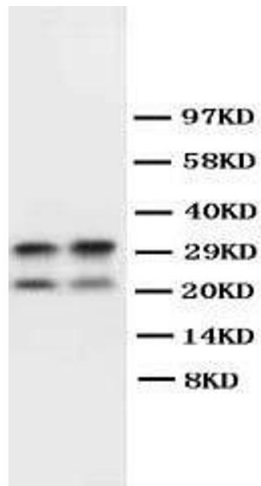
Publications

Product cited in:	<p>Zhou, Liu, Wang, Zou, Wei, Zhou: "Neuroprotective effect of ischemic postconditioning on sciatic nerve transection." in: Neural regeneration research, Vol. 13, Issue 3, pp. 492-496, (2018) (PubMed).</p> <p>Mi, Gao, Liu, Ye, Li, Jin, Yang, Yang: "Cyclin-dependent kinase inhibitor flavopiridol promotes remyelination in a cuprizone induced demyelination model." in: Cell cycle (Georgetown, Tex.), Vol. 15, Issue 20, pp. 2780-91, (2017) (PubMed).</p> <p>Hu, Zhang, Tian, Xun, Wang, Lv: "Effects of nerve growth factor and basic fibroblast growth factor dual gene modification on rat bone marrow mesenchymal stem cell differentiation into neuron-like cells in vitro." in: Molecular medicine reports, Vol. 13, Issue 1, pp. 49-58, (2016) (PubMed).</p> <p>Jin, Liu, Deng, Liao, Lin, Ning, Luo et al.: "Neuroprotective effects of activated protein C on intrauterine inflammation-induced neonatal white matter injury are associated with the downregulation of fibrinogen-like protein 2/fibroleukin ..." in: International journal of molecular medicine, Vol. 35, Issue 5, pp. 1199-212, (2015) (PubMed).</p>
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Chen, Chen, Huang, Qin, Fang, Liu, Zhang, Pan, Wang, Xie: "Soluble epoxide hydrolase inhibition provides multi-target therapeutic effects in rats after spinal cord injury." in: **Molecular neurobiology**, (2015) ([PubMed](#)).

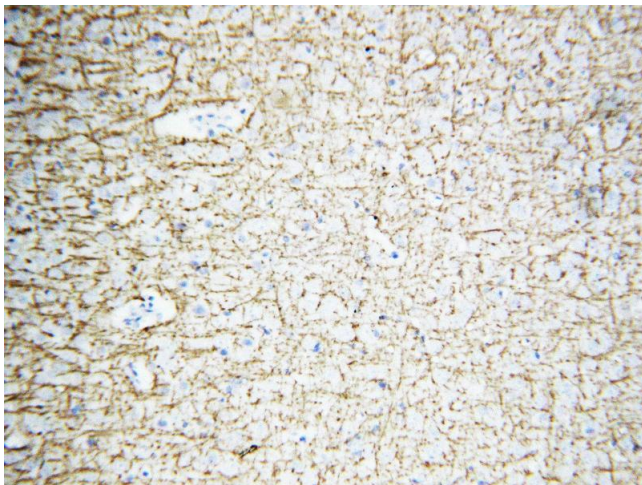
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-Myelin Basic Protein antibody, Western blotting WB: Mouse Brain Tissue Lysate



Immunohistochemistry

Image 2. Anti-Myelin Basic Protein antibody, IHC(P) IHC(P): Rat Brain Tissue