



Product Information Sheet

Polyclonal Anti-Myelin Basic Protein, **MBP**

Catalogue No. PA1050

Lot No. 01010121450124

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

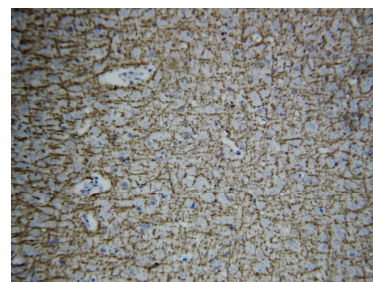
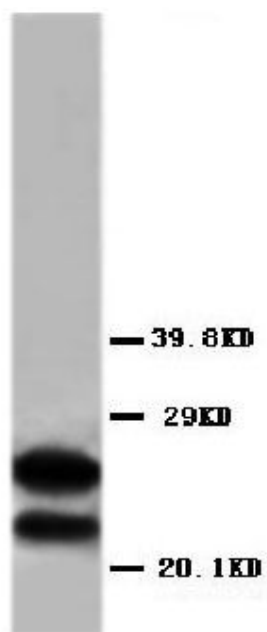
Human, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry (P)



Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of the human MBP (182-197 aa), identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	1µg/ml	Hu, Rat	Ms	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

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 longer time.

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.

REFERENCE

1. Marty MC, Alliot F, Rutin J, Fritz R, Trisler D, Pessac B. The myelin basic protein gene is expressed in differentiated blood cell lineages and in hemopoietic progenitors. *Proc Natl Acad Sci U S A*. 2002 Jun 25; 99(13):8856-61.
2. Streicher R, Stoffel W. The organization of the human myelin basic protein gene. Comparison with the mouse gene. *Biol Chem Hoppe Seyler*. 1989 May; 370(5):503-10.
3. McLaurin JA, Hafler DA, Antel JP. Reactivity of normal T-cell lines to MBP isolated from normal and multiple sclerosis white matter. *J Neurol Sci*. 1995 Feb; 128(2):205-11.
4. Iester A, Vignola S, Callegarini L, Gimelli G, Alpigiani MG. [18q syndrome with deficiency of myelin basic protein (MBP)] *Pediatr Med Chir*. 1996 Mar-Apr; 18(2):201-5.
5. Tranquill LR, Skinner E, Campagnoni C, Vergelli M, Hemmer B, Muraro P, Martin R, McFarland HF, Campagnoni AT, Voskuhl RR. Human T lymphocytes specific for the immunodominant 83-99 epitope of myelin basic protein: recognition of golli MBP HOG 7. *J Neurosci Res*. 1996 Sep 15; 45(6):820-8.