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Product datasheet for TA336919

Myelin Basic Protein (MBP) Mouse Monoclonal Antibody [Clone ID: 2H9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2H9
Applications:	ELISA, FC, IF, IHC, WB
Recommend Dilution:	WB: 1:500-1:2000, ELISA: 1:10000, FC: 1:200-1:400, IF: 1:200-1:1000, IHC-P: 1:200-1:1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human Myelin Basic Protein expressed in E. coli. [UniProt# P02686]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	1 mg/ml
Purification:	Ammonium sulfate precipitation
Predicted Protein Size:	33 kDa
Gene Name:	myelin basic protein
Database Link:	NP_001020252 Entrez Gene 4155 Human
Background:	The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes.

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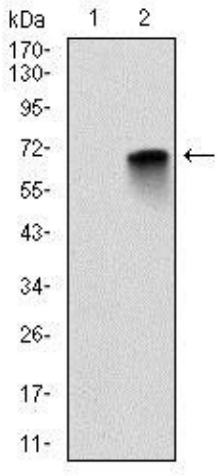
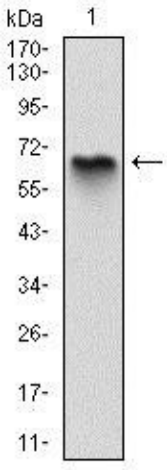
Synonyms: MGC99675

Note: This Myelin Basic Protein (2H9) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections, Immunocytochemistry/Immunofluorescence, Flow Cytometry and ELISA.

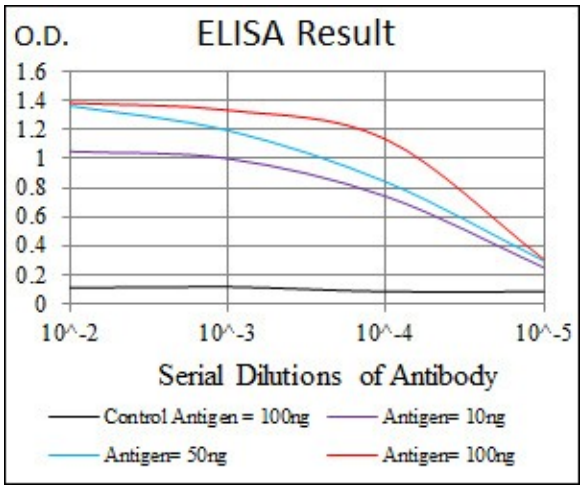
Product images:



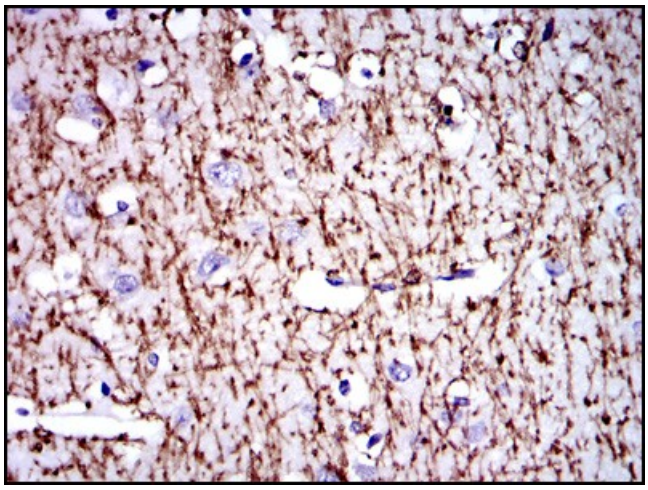
Western Blot: Myelin Basic Protein Antibody (2H9) TA336919 - Western blot analysis using Myelin Basic Protein mAb against HEK293 (1) and Myelin Basic Protein-hIgGFc transfected HEK293 (2) cell lysate.



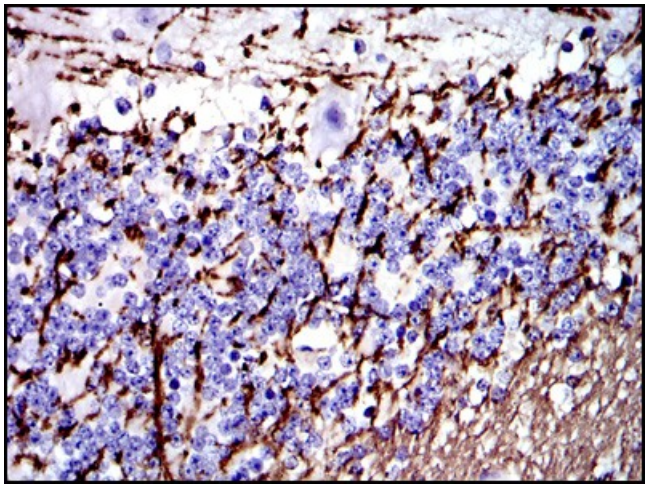
Western Blot: Myelin Basic Protein Antibody (2H9) TA336919 - Western blot analysis using Myelin Basic Protein mAb against human Myelin Basic Protein (AA: 1-197) recombinant protein. (Expected MW is 70 kDa)



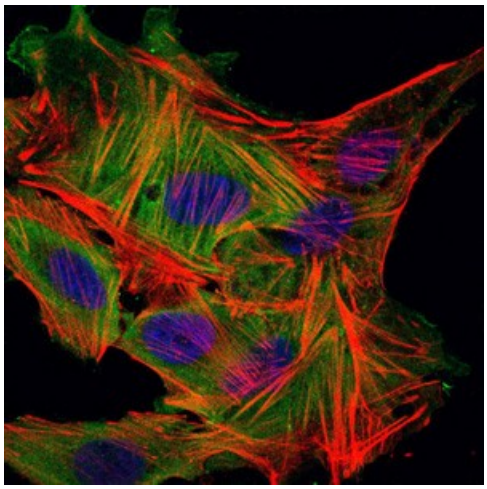
ELISA: Myelin Basic Protein Antibody (2H9) TA336919 - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng).



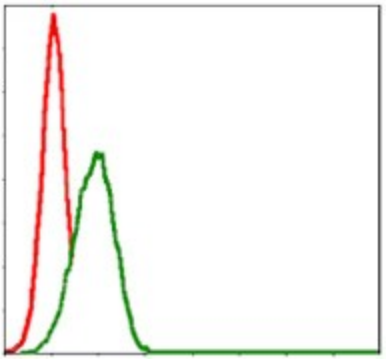
Immunohistochemistry-Paraffin: Myelin Basic Protein Antibody (2H9) TA336919 - Immunohistochemical analysis of paraffin-embedded brain tissues using Myelin Basic Protein mouse mAb with DAB staining.



Immunohistochemistry-Paraffin: Myelin Basic Protein Antibody (2H9) TA336919 - Immunohistochemical analysis of paraffin-embedded cerebellum tissues using Myelin Basic Protein mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: Myelin Basic Protein Antibody (2H9) TA336919 - Immunofluorescence analysis of MSCS cells using Myelin Basic Protein mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with A



Flow Cytometry: Myelin Basic Protein Antibody (2H9) TA336919 - Flow cytometric analysis of HepG2 cells using Myelin Basic Protein mouse mAb (green) and negative control (red).