

ARG11119 anti-Myelin Basic Protein antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Myelin Basic Protein
Tested Reactivity	Hu, Ms, Rat, Cow, Pig
Tested Application	IHC-Fr, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Myelin Basic Protein
Species	Bovine
Immunogen	Purified Myelin Basic Protein isolated from bovine brain.
Conjugation	Un-conjugated
Alternate Names	MBP; Myelin Basic Protein; Myelin Membrane Encephalitogenic Protein; Myelin A1 Protein; Golli-MBP

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:2000 - 1:5000
	WB	1:5000 - 1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

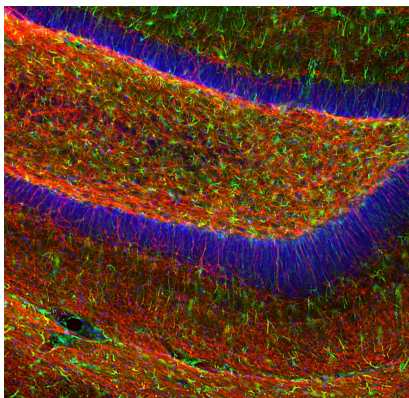
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 5 mM Sodium azide and 50% Glycerol.
Preservative	5 mM Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

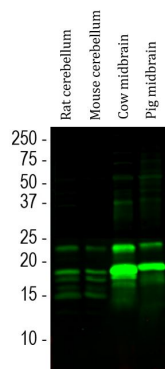
Gene Symbol	MBP
Gene Full Name	Myelin Basic Protein
Background	<p>The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. 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. [provided by RefSeq, Jul 2008]</p>
Function	<p>The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. Differential splicing events combined with optional post-translational modifications give a wide spectrum of isomers, with each of them potentially having a specialized function. Induces T-cell proliferation. [UniProt]</p>
Calculated Mw	33 kDa
PTM	Acetylation; Citrullination; Methylation; Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane; Membrane; Nucleus. [UniProt]

Images



ARG11119 anti-Myelin Basic Protein antibody IHC-Fr image

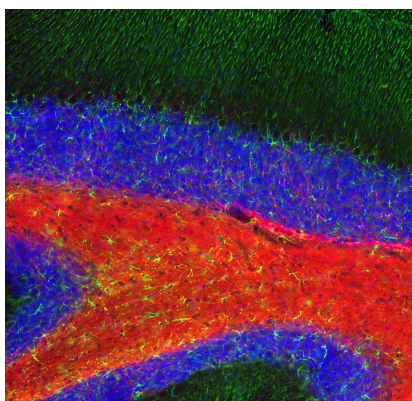
Immunohistochemistry: Frozen section of Mouse hippocampus tissue stained with ARG11119 anti-Myelin Basic Protein antibody (red) at 1:5000 dilution, and co-stained with anti-GFAP antibody (green) at 1:5000 dilution. Hoechst (blue) for nuclear staining.



ARG11119 anti-Myelin Basic Protein antibody WB image

Western blot: Rat cerebellum, Mouse cerebellum, Cow midbrain and Pig midbrain lysates stained with ARG11119 anti-Myelin Basic Protein antibody at 1:5000 dilution.

Multiple bands between 15-25 kDa mark correspond to the various alternate transcripts of the single MBP gene.



ARG11119 anti-Myelin Basic Protein antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat cerebellum tissue stained with ARG11119 anti-Myelin Basic Protein antibody (red) at 1:5000 dilution, and co-stained with anti-GFAP antibody (green) at 1:5000 dilution.