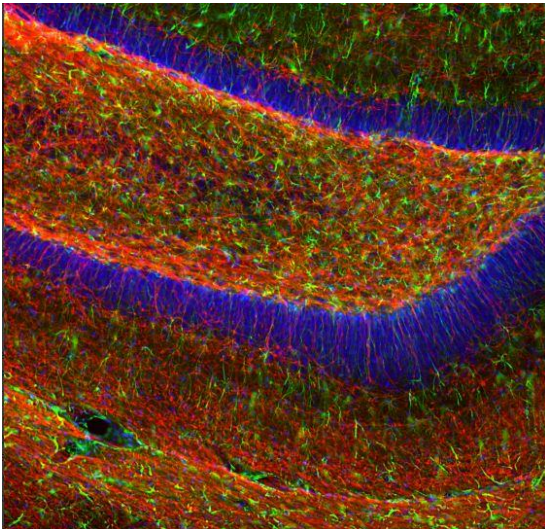




Catalog Number:	GT22104	Host:	Goat
Product Type:	Goat Polyclonal IgG	Species Reactivity:	Human, rat, mouse, cow, and pig
Immunogen Sequence:	Purified myelin basic protein isolated from bovine brain	Format:	Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applications:	Immunofluorescent: 1:2,000-5,000 Immunocytochemistry: 1:2,000-5,000 Western Blot: 1:5,000-10,000		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody is stable at 2° - 8° C for 1 year. Avoid repeated freeze-thaw cycles.		

Application Notes



Description/Data:

Myelin Basic Protein (MBP) is one of the major proteins of the myelin sheath surrounding axons in the nervous system. Since it is of relatively low molecular weight and high abundance the protein sequence was determined from purified protein over 30 years ago. The protein is made by oligodendrocytes in the central and nervous system, so antibodies to MBP are good markers of this cell type. In the peripheral nervous system MBP is expressed by myelinating Schwann cells so this antibody can be used to identify these cells in culture or sections. In the central nervous system four different forms of the protein made by alternate transcription from a single gene, the protein products having molecular weights of 21.5, 20.5, 18.5, and 17.2kDa in humans.

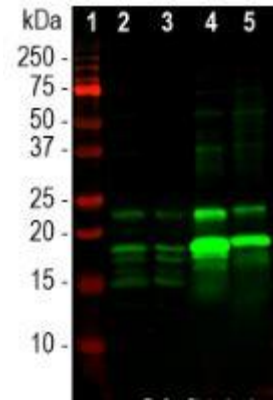
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Images: Immunofluorescence: Immunofluorescent analysis of mouse hippocampus section stained with goat pAb to myelin basic protein (MBP), GT22104, dilution 1:5,000 in red, and costained with rabbit pAb to GFAP, dilution 1:5,000 in green. **Western Blot:** Western blot analysis of different tissue lysates using goat pAb to myelin basic protein (MBP), GT22104, dilution 1:5,000 in green: [1] protein standard (red), [2] rat cerebellum, [3] mouse cerebellum, [4] cow midbrain and [5] pig midbrain.



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