Datasheet for ABIN6719344

anti-MOG antibody

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Overview

Quantity:	100 µg
Target:	MOG
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MOG antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Myelin oligodendrocyte glycoprotein/MOG Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Myelin oligodendrocyte glycoprotein/MOG, which shares 85.7% and 88.6% amino acid (aa) sequence identity with mouse and rat Myelin oligodendrocyte glycoprotein/MOG, respectively.
Sequence:	RVVHLYRNGK DQDGDQAPEY RGRTELLKDA IGEGK
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Myelin oligodendrocyte glycoprotein/MOG Antibody Picoband® (ABIN6719344). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	MOG
Alternative Name:	MOG (MOG Products)
Background:	Synonyms: Myelin-oligodendrocyte glycoprotein, MOG Tissue Specificity: Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes. Background: Myelin oligodendrocyte glycoprotein (MOG) is a glycoprotein believed to be important in the myelination of nerves in the central nervous system (CNS). In humans this protein is encoded by the MOG gene. This gene is mapped to 6p22.1. It is speculated to serve as a necessary "adhesion molecule" to provide structural integrity to the myelin sheath and is known to develop late on the oligodendrocyte. The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Weight:	26 kDa
Gene ID:	4340
UniProt:	Q16653

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human 1. Pham-Dinh D, Della Gaspera B, Kerlero de Rosbo N, Dautigny A (September 1995). "Structure of the human myelin/oligodendrocyte glycoprotein gene and multiple alternative spliced isoforms". Genomics. 2. Pham-Dinh D, Jones EP, Pitiot G, Della Gaspera B, Daubas P, Mallet J, Le Paslier D, Fischer Lindahl K, Dautigny A (1995). 3. "Physical mapping of the human and mouse MOG gene at the distal end of the MHC class Ib region". 4. Immunogenetics. Roth MP, Malfroy L, Offer C, Sevin J, Enault G, Borot N, Pontarotti P, Coppin H (July 1995). 5. "The human myelin oligodendrocyte glycoprotein (MOG) gene: complete nucleotide sequence and structural

Application Details

	characterization". Genomics. 6. Berger, T., Innsbruck Medical University Dept. of Neurology interviewed by S. Gillooly, Nov. 24, 2008.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
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 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.