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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Oligodendrocyte-specific surface antigen [sHlgM46 (LYM46)] Bulk Size,
1 mg, Ab02986-8.1-BT

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Anti-Oligodendrocyte-specific surface antigen [sHlgM46 (LYM46)] Bulk Size Ab02986-8.1-BT

This chimeric rat antibody was made using the variable domain sequences of the original Human IgM format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rat IgG2b, Kappa

Clone Number: sHlgM46 (LYM46)

Alternative Name(s) of Target: oligodendrocyte

UniProt Accession Number of Target Protein:

Published Application(s): ICC, therapeutic, IF, IHC

Published Species Reactivity: Human, Mouse, Rat

Immunogen: The original antibody was isolated from the sera obtained from 102 patients with a wide variety of conditions including Waldenstrom's macroglobulinemia, multiple myeloma, lymphoma, and monoclonal gammopathy.

Specificity: This antibody recognizes and binds an epitope on the cell surface of human oligodendrocytes and central white matter of the cerebellum. This antibody also cross reacts with antigens present on mouse and rat oligodendrocytes.

Application Notes: This antibody is directed against the cell surface antigen of oligodendrocyte and promotes significant remyelination in a virus mediated model of multiple sclerosis (MS). A single 0.5 mg peripheral dose of either of two human IgMs (sHlgM22 and sHlgM46) promoted significant remyelination in chronically Theiler's murine encephalomyelitis virus (TMEV) infected mice (PMID: 10841576). This antibody was used in the immunohistochemical staining of 8 week SJL/J mouse cerebellar slices and was found to bind the white matter the internal granular layer, Purkinje cell soma, and small cells within the molecular layer (PMID: 15198125). This antibody was also used in the immunohistochemical and immunocytochemical analysis of active MS lesions from 83 biopsies and autopsies of MS patients and was also used in the identification of four different pathologic subtypes of active MS lesions (PMID: 21961063)

Antibody First Published in: Warrington et al. Human monoclonal antibodies reactive to oligodendrocytes promote remyelination in a model of multiple sclerosis. Proc Natl Acad Sci U S A. 2000 Jun 6;97(12):6820-5. [PMID:10841576](https://pubmed.ncbi.nlm.nih.gov/10841576/)

Note on publication: Describes the generation of two antibodies that promote remyelination in a virus mediated mouse model of multiple sclerosis.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.