

Anti-Myelin basic protein [B5V6] Standard Size Ab03095-10.0

This full-length reformatted human antibody was made using the variable domain sequences of the original Human scFv format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgG1, Lambda

Clone Number: B5V6

Alternative Name(s) of Target: MBP; Myelin A1 protein; Myelin membrane encephalitogenic protein

UniProt Accession Number of Target Protein: P02687

Published Application(s): ELISA

Published Species Reactivity: Bovine, Epstein Barr virus

Immunogen: The original antibody was isolated from a phage display library of single-chain variable fragments (scFvs), which was constructed from blood lymphocytes of patient with MS as a potential source of representative MS autoantibodies.

Specificity: This antibody binds bovine myelin binding protein (MBP) both in its native and denatured form in the region between amino acids 130–156. The MBP isoforms 4 and 14 along with PLP are most abundant protein components of the myelin membrane in the CNS. The smaller isoforms are believed to have an important role in remyelination of denuded axons in multiple sclerosis.

Application Notes: The scFv version of this antibody binds bovine myelin basic protein with a binding affinity of 12 nM in an ELISA (PMID: 21859892).

Antibody First Published in: Gabibov et al. Combinatorial antibody library from multiple sclerosis patients reveals antibodies that cross-react with myelin basic protein and EBV antigen. FASEB J. 2011 Dec;25(12):4211-21. [PMID:21859892](#)

Note on publication: Describes the isolation of antibodies against myelin basic protein and EBV antigens from a combinatorial library generated from blood lymphocytes of patient with multiple sclerosis.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.