

## Anti-Myelin basic protein [F28C4] Standard Size Ab03090-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Lambda

**Clone Number:** F28C4

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

**UniProt Accession Number of Target Protein:** P02686

**Published Application(s):** ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing PL/J mice with MBP acetyl residues 1-9.

**Specificity:** This antibody binds human myelin basic protein (MBP), acetyl residues 1-9 (ASQKRPSQR). 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:** This antibody shares a cross reactive idiotpe with the TCRs, possibly as a result of having similar fine epitope specificity and sequence homology (PMID: 7517973). This antibody can be used for the detection of MBP in a solution using ELISA (PMID: 8567971).

**Antibody First Published in:** Maier et al. A V lambda x-bearing monoclonal antibody with similar specificity and sequence to encephalitogenic T cell receptors. J Immunol. 1994 Aug 1;153(3):1132-40.

[PMID:7517973](#)

**Note on publication:** Describes the generation of this antibody and compares its sequences homology to encephalitogenic T cell receptors.

## 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.