

Anti-MMBP [MBP_E01] Standard Size Ab02194-23.0

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

Isotype and Format: Rabbit IgG, Kappa

Clone Number: MBP_E01

Alternative Name(s) of Target: Maltose/maltodextrin-binding periplasmic protein; Maltodextrin-binding protein; Maltose-binding protein; MBP

UniProt Accession Number of Target Protein: P0AEX9

Published Application(s): ELISA

Published Species Reactivity: Escherichia coli

Immunogen: The original Fab version of this antibody was obtained by recombinant antibody phage display.

Specificity: This antibody recognizes MMBP (Maltose/maltodextrin-binding periplasmic protein) which is a part of the ABC transporter complex MalEFGK involved in maltose/maltodextrin import. It binds maltose and higher maltodextrins such as maltotriose.

Application Notes: This antibody exhibits strong binding to MMBP ($K_d=2.7$ nM) (Mukherjee et al., 2015; pmid: 26159704). MBP_E01 is recommended for the detection and structural conformation analysis of MMBP (Mukherjee et al., 2015; pmid: 26159704).

Antibody First Published in: Mukherjee et al. A New Versatile Immobilization Tag Based on the Ultra High Affinity and Reversibility of the Calmodulin-Calmodulin Binding Peptide Interaction J Mol Biol. 2015 Aug 14;427(16):2707-25. doi: 10.1016/j.jmb.2015.06.018. Epub 2015 Jul 6. [PMID:26159704](#)

Note on publication: Describes the generation of Fab antibody fragments against MMBP.

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.