

**Anti-MBP
Monoclonal Antibody
(HRP conjugated)**



E8038S

0.05 ml **Lot: 0081202** **Exp: 2/14**
1 mg/ml **Store at -20°C**

Description: Anti-MBP Monoclonal Antibody (HRP conjugated) is a murine anti-maltose binding protein antibody, isotype IgG2a. It is covalently linked to horseradish peroxidase and purified (1,2).

Source: Tissue culture supernatant from cell line B48.

Supplied in: 150 mM NaCl, 10 mM HEPES (pH 7.5) and 50% glycerol.



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Recommended Working Dilution for Westerns:
1/2000–1/5000

Quality Assurance: In an ELISA assay, a dilution of 1/2000 gives a signal of at least 20% of the maximum signal using concentrated antibody (detected with OPD as the substrate). The same 1/2000 dilution gives a strong signal when used to detect maltose-binding protein in Western blots developed with a variety of detection systems. This antibody does not cross-react with other *E. coli* proteins.

Western Transfer Protocol

Materials:

Transfer apparatus and associated buffers
Nitrocellulose or PVDF membrane
TBST (20 mM Tris-Cl (pH 7.5), 150 mM NaCl, 0.1% Tween 20)
Blocking Buffer (TBST + 5% Nonfat Dry Milk)
Anti-MBP Monoclonal Antibody, HRP conjugated (NEB #E8038)
Detection reagent

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For a 10 cm x 10 cm gel:

1. Transfer protein from the gel to a nitrocellulose or PVDF membrane following the directions of the transfer apparatus manufacturer. Mark the wells of the gel on the filter with a blunt pencil before removing and discarding the gel.
2. Rinse the membrane with TBST.
3. Incubate the membrane with Blocking Buffer for 1 hour at room temperature (or overnight at 4°C) with gentle shaking.
4. Wash the membrane in 25 ml TBST at room temperature with gentle shaking, 3 times for 5 minutes each.
5. Add 5 ul of the Anti-MBP Monoclonal Antibody, HRP Conjugated, to 10 ml Blocking Buffer (a 1:2,000 dilution). Cover the membrane with the antibody dilution and incubate for 1 hour at room temperature with gentle shaking.
6. Wash the membrane in 25 ml TBST at room temperature with gentle shaking, 3 times for 5 minutes each.
7. Follow the manufacturer's directions for detection.

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Note: Store at -20°C undiluted. May be stored at 4°C diluted in buffer containing 1 mM NaN₃ or an equivalent antimicrobial agent.

References:

1. Nakane, P. K. and Kawaoi, A. (1974) *J. Histochem. Cytochem.* 22, 1084–1091.
2. Boorsma, D. M. and Streefkerk, J. G. (1979) *J. Histochem. Cytochem.* 24, 481–486.

CERTIFICATE OF ANALYSIS

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