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

**E8038S**

0.05 ml Lot: 0111507 Exp: 7/17
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.

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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**

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 µl 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.
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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.

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