

## Anti-MBP Monoclonal Antibody



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E8032S 009120414041

# E8032S

**0.05 ml**      **Lot: 0091204**      **Exp: 4/14**  
**1 mg/ml**      **Store at -20°C**

**Description:** Anti-MBP Monoclonal Antibody is a murine anti-maltose binding protein antibody, isotype IgG2a. It is purified from tissue culture supernatant by Protein A affinity chromatography.

**Source:** Tissue culture supernatant from cell line B48.

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

**Recommended Dilution:** 1/10,000.

**Quality Assurance:** In an ELISA assay, a dilution of 1/10,000 gives a signal of at least 20% of the maximum signal using high concentrations of antibody. The same 1/10,000 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, 150 mM NaCl,  
0.1% Tween 20)

Blocking Buffer (TBST + 5% Nonfat Dry Milk)  
Anti-MBP Monoclonal Antibody NEB #E8032  
anti-mouse antibody conjugated to peroxidase  
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 25 ml Blocking Buffer for 1 hour at room temperature (or overnight at 4°C) with gentle shaking.
4. Wash the membrane in 25 ml TBST for 5 minutes with gentle shaking, 3 times for 5 minutes each.
5. Add 1 µl of the Anti-MBP Monoclonal Antibody to 10 ml Blocking Buffer (a 1:10,000 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. Make a dilution of the anti-mouse IgG-peroxidase conjugate in 10 ml Blocking Buffer according to the manufacturer's recommendation, and incubate the membrane in the solution for 1 hour.
8. Wash the membrane in 25 ml TBST at room temperature with gentle shaking, 3 times for 5 minutes each.
9. Follow the manufacturer's directions for detection.

**Note:** Store at -20°C undiluted. May be stored at 4°C diluted in buffer containing 1 mM Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> or an equivalent antimicrobial agent

CERTIFICATE OF ANALYSIS

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