Anti-MBP Monoclonal Antibody

1-800-632-7799
info@neb.com
www.neb.com

E8032S 00912081408 1

E8032S

0.05 ml **Lot: 0091208** **Exp: 8/14**
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 NaN_3 or an equivalent antimicrobial agent

CERTIFICATE OF ANALYSIS

Anti-MBP Monoclonal Antibody

1-800-632-7799
info@neb.com
www.neb.com

E8032S 00912081408 1

E8032S

0.05 ml **Lot: 0091208** **Exp: 8/14**
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 NaN_3 or an equivalent antimicrobial agent

CERTIFICATE OF ANALYSIS