

Anti-M13 pIII Monoclonal Antibody



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E8033S 005120515051

E8033S

0.1 ml **Lot: 0051205** **Exp: 5/14**
0.2 mg/ml **Store at -20°C**

Description: Anti-M13 pIII Monoclonal Antibody (mouse isotype IgG2a) is derived from the A23 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with the C-terminal half of M13 coat protein III (residues 259–406). Monoclonal anti-M13 pIII recognizes nonreduced and denatured reduced forms of wild type pIII or pIII fusions in immunoblotting and ELISA.

Source: Tissue culture supernatant from murine monoclonal cell line A23.

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

Applications: Recombinant protein domains such as antibody fragments can be fused to M13 coat protein pIII and displayed on phage using phagemid-based systems (1), rather than the phage-based system utilized in the Ph.D. libraries. Anti-M13 pIII Monoclonal Antibody can be used to determine fusion protein expression levels both in *E. coli* and on the M13 virion by immunoblot analysis.

Suggested Working Dilution: 1/1,000

Performance: A dilution of 1/1,000 detected as few as 10⁷ M13 CFU electrophoresed and transferred onto Immobolin PVDF membrane in an immunoblot assay.

Note: ELISA against whole phage using this antibody is not recommended since the epitope lies in a region that is not accessible on intact M13 phage virions.

Reference:

1. Barbas, C.F. et al. (2001). *Phage Display: A Laboratory Manual*, (pp. 2.1–2.19). Cold Spring Harbor: Cold Spring Harbor Laboratory Press.

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