

Gyr B Monoclonal Antibody (7D3) (N-terminal domain of Gyr B)



Product Description (Product Numbers #7D001, 7D005 and 7D100)

Gyr B antibody 7D3 is an IgG_{2a} monoclonal produced from tissue culture supernatant. It is purified on a Protein A column (Ey *et al.*, 1978) using the low-salt method. The antibody is supplied at a concentration requiring ~1:1000 dilution for Western blotting.

For *in vitro* laboratory research use only.

Storage Buffer

Phosphate Buffered Saline (PBS) pH 7.2
Dilutions should be performed in PBS.
Store at -20°C, (stable for at least 12 months undiluted).

Quality Control

The antibody is purified to >95% purity as judged by SDS-polyacrylamide gel electrophoresis.

Endonuclease assay: 0.5µg Supercoiled pBR322 incubated with the antibody at a concentration range of 0.01µg/ml-100µg/ml for 1 hour at 37°C in the presence of 1 mM ATP, shows no detectable conversion of superhelical DNA to either open circular or linear forms when assayed by agarose gel electrophoresis.

Exonuclease assay: 1µg linear pBR322 was incubated with the antibody at a range of 0.01µg/ml-10µg/ml for 30 minutes at 37°C before being religated and transformed into competent JM109 cells. There was no detectable reduction in transformation efficiency.

References

Ey, P.L., S.J., & Jenkin, C.R. (1978). Isolation of pure IgG₁, IgG_{2a}, and IgG_{2b} immunoglobulins from mouse serum using Protein A sepharose. *Immunochemistry*. **15**: 429-436

Harlow, E. & Lane, D (1988). *Antibodies: a laboratory manual*. Cold Spring Harbor Laboratory Press. Cold Spring Harbor