

## Gyr A Monoclonal Antibody (4D3) (C-terminal domain of Gyr A)



### Product Description (Product Numbers # 4D001, 4D005 and 4D100)

Gyr A antibody 4D3 is an IgG<sub>2b</sub> 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: 0.5 µg supercoiled pBR322 incubated with the antibody at a concentration range of 0.01 µg/ml -100 µg/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: 1 µg linear pBR322 was incubated with the antibody at a range of 0.01 µg/ml -10 µg/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 IgG<sub>1</sub>, IgG<sub>2a</sub>, and IgG<sub>2b</sub> 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