

Protamine Monoclonal Antibodies

The Hup series of monoclonal antibodies were generated in mice using the native protamine molecules isolated from mature sperm as antigens [1-3] and are provided as affinity purified reagents.

Antibody Concentration

Hup1N: 2.1 mg/ml in PBS, pH 7.4
Hup2B: 2.1 mg/ml in PBS, pH 7.4
Hup1M: 1.3 mg/ml in PBS, pH 7.4

Volumes Provided

	150 µg	300 µg	1000 µg
Hup1N	80 µl	160 µl	533 µl
Hup2B	80 µl	160 µl	533 µl
Hup1M	130 µl	260 µl	867 µl

Recommended Dilution

The best antibody dilution for a particular application is generally determined by the user and depends on the concentration and availability of the antigen, concentration of the antibody, the type of antibody tag and the method that will be used to detect or visualize antibody binding. The following dilutions are typical examples that have been used by various investigators and should only be used as guidelines.

Western blotting: 1/4000 to 1/400 (0.5-5 µg antibody/ml)
Tissue staining: 1/100 to 1/50 (20-40 µg antibody/ml)

Storage

These antibodies should be stored at 4 °C if they are to be used within a month after their arrival. Freeze aliquots at -20 °C if they need to be stored for longer periods of time (up to 1 year). Avoid subjecting the antibodies to repeated cycles of freezing and thawing.

References

1. Stanker, LH, Wyrobek, A, Balhorn R. (1987) Monoclonal antibodies to human protamines. *Hybridoma* 3: 293-303.
2. Stanker, LH, McKeown, C, Balhorn, R, Lee, C, Mazrimas, J, Goralka, M, Wyrobek, A. (1992) Immunological evidence for a P2 protamine precursor in mature rat sperm. *Mol Reprod Devel* 33: 481-488.
3. Stanker, LH, Wyrobek, A, McKeowan, C, Balhorn, R. (1993) Identification of the binding site of two monoclonal antibodies to human protamine. *Mol Immunol* 18:1633-8.

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