

## BPB Protamine Monoclonal Antibodies

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

MAb		isotype	antigen selectivity (ELISA)	Concentration in PBS, pH 7.4
BPB-2	A11	IgG1	P1 (human, mouse)	1.18 mg/ml
BPB-5	A2	IgG1	P1 (human, mouse)	1.27 mg/ml
BPB-6	F3	IgG1	P1 (human, mouse)	0.85 mg/ml
BPB-8	F5	IgG1	P1 (human, mouse)	0.61 mg/ml
BPB-9	F1	IgG1	P1 (human, mouse)	0.87 mg/ml
BPB-5	D1	IgG2a	P1 (human, mouse, bull) and P2 (mouse, stallion)	2.1 mg/ml
BPB-11	C1	IgG1	P1 (human, mouse, bull) and P2 (mouse, stallion (low))	0.71 mg/ml
BPB-20	D4	IgG2b	P1 (human, mouse, stallion, bull) and P2 (human, mouse, stallion (low))	2.80 mg/ml
BPB-26	B11	IgG2a	P1 (human)	1.49 mg/ml
BPB-17	B8	IgG2b	P2 (human)	1.70 mg/ml
BPB-26	F6	IgG2a	P2 (human, mouse)	0.83 mg/ml
BPB-18	C10	IgG1	native human P1/P2 mix only	0.68 mg/ml

### 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).

**PLEASE AVOID SUBJECTING THE ANTIBODIES TO REPEATED CYCLES OF FREEZING AND THAWING.** Store antibody in current use in the refrigerator.

### Reference

Rod Balhorn, Klaus Steger, Martin Bergmann, Hans-Christian Schuppe, Stefanie Neuhauser & Monique C. Balhorn (2018) New monoclonal antibodies specific for mammalian protamines P1 and P2, Systems Biology in Reproductive Medicine, 64:6, 424-447, DOI: 10.1080/19396368.2018.1510063

**These antibodies are sold for research or laboratory use only. They are not to be administered to humans or animals**