

Novocastra™ Lyophilized Mouse Monoclonal Antibody Dinitrophenyl

Product Code: NCL-DNP

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Dinitrophenyl-labelled proteins, peptides or oligonucleotides.
Clone	PAK
Ig Class	IgG2a
Antigen Used for Immunizations	2, 4-Dinitrophenyl (DNP) coupled to bovine serum albumin.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Yes
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Antibody concentration is 0.5 mg/mL. Immunohistochemistry: It is recommended that each laboratory determines its own optimum working dilution. Western Blotting: It is recommended that each laboratory determines its own optimum working dilution. Southern Blotting: It is recommended that each laboratory determines its own optimum working dilution. Northern Blotting: It is recommended that each laboratory determines its own optimum working dilution
Storage and Stability	Store unopened lyophilized antibody at 4 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
General Overview	NCL-DNP may be used for the detection of dinitrophenyl-labelled antibodies in immunohistochemical techniques. NCL-DNP may also be used in the detection DNP-labelled oligonucleotides in Southern and Northern blotting techniques. The DNP hapten is a useful alternative to other non-radioactive labels such as biotin, FITC and digoxigenin.
General References	Grzybowski J, Will D W, Randall R E, et al.. Nucleic Acids Research. 21: 1705–1712 (1993).

