

## Novocastra™ Lyophilized Mouse Monoclonal Antibody nm23 Protein

## Product Code: NCL-nm23

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Human nm23-H1 protein (NDPK-A). Low crossreactivity with nm23-H2 homolog (NDPK-B).
Clone	37.6
lg Class	lgG2a
Antigen Used for Immunizations	Nucleoside diphosphate kinase A purified from human erythrocytes.
Hybridoma Partner	Mouse myeloma (X63-Ag8-653).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with 1 mL or 0.1 mL of sterile distilled water as indicated on vial label.
Effective on Frozen Tissue	Yes
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry: Typical working dilution 1:100–1:250. 60 minutes primary antibody incubation at 25 °C. Standard ABC technique. Western Blotting: Typical working dilution 1:100–1:250.
Positive Controls	Immunohistochemistry: A high proportion of breast carcinomas are positive. Western Blotting: MCF7 cell line.
Staining Pattern	Cytoplasmic.
Staining Pattern Storage and Stability	Cytoplasmic. 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.
-	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).
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. nm23 is a heterodimeric protein that acts as a nucleoside diphosphate (NDP) kinase. Two human homologs of the nm23 gene have been isolated and designated nm23-H1 and nm23-H2. The products of these genes encode the A and B polypeptide chains of the nucleoside diphosphate kinase, respectively. Each chain consists of 152 amino acid residues that by random association form isoenzymes. NDP kinases are involved in the synthesis of nucleoside triphosphates, and the nm23 protein may act in the regulation of signal transduction by complexing with G proteins,