

## 36-2871: Anti-Nucleophosmin (Acute Myeloid Leukemia Marker) Monoclonal Antibody(Clone: rNPM1/1901)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | rNPM1/1901   |
| <b>Application :</b>           | WB,FACS,IHC  |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | NPM1   |
| <b>Gene ID :</b>               | 4869   |
| <b>Uniprot ID :</b>            | P06748   |
| <b>Alternative Name :</b>      | NO38; NPM; NPM1; Nucleolar phosphoprotein B23; Nucleolar protein NO38; Nucleophosmin (nucleolar phosphoprotein B23 numatrin); Nucleophosmin; Nucleophosmin/nucleoplasmin family member 1; Numatrin |
| <b>Isotype :</b>               | Mouse IgG1, kappa  |
| <b>Immunogen Information :</b> | Recombinant human NPM1 protein fragment (aa185-287) (exact sequence is proprietary)  |

### Description

Recognizes a 33kDa glycoprotein, identified as Nucleophosmin (NPM). It is predominantly localized in the nucleus of cells in most tissues. NPM is involved in ribosomal assembly and rRNA transport. It is an abundant protein that is highly phosphorylated by Cdc2 kinase during mitosis. This phosphoprotein moves between the nucleus and the cytoplasm. It is thought to be involved in several processes including regulation of the ARF/p53 pathway. A number of genes are fusion partners, in particular the anaplastic lymphoma kinase gene on chromosome 2. Mutations in exon 12 affecting the C-terminus of the protein are associated with an aberrant cytoplasmic location. Mutations in this gene are associated with acute myeloid leukemia. The antibody may be a useful aid for classification of acute myeloid leukemia.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg / 100 µg  |
| <b>Content :</b>           | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.                               |

### Application Note

Western Blot (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

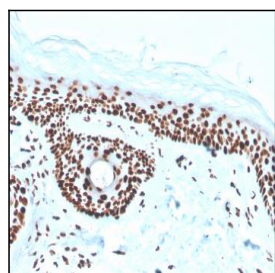


Fig. 1: Formalin-fixed, paraffin-embedded human skin stained with Nucleophosmin Recombinant Mouse Monoclonal Antibody (rNPM1/1901).

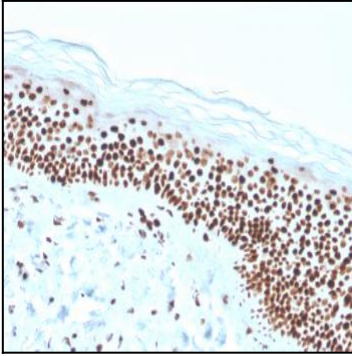


Fig. 2: Formalin-fixed, paraffin-embedded human skin stained with Nucleophosmin Recombinant Mouse Monoclonal Antibody (rNPM1/1901).

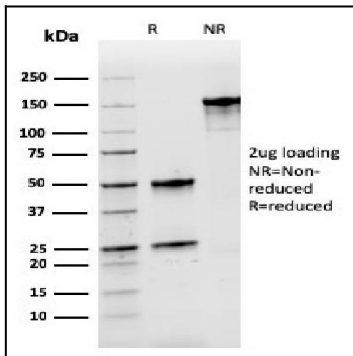


Fig. 3: SDS-PAGE Analysis Purified NPM1 Recombinant Mouse Monoclonal Antibody (rNPM1/1901). Confirmation of Integrity and Purity of Antibody.