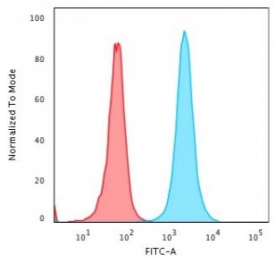
# Recombinant Nucleophosmin Antibody / NPM1 [clone rNPM1/1901] (V7981)

| Catalog No. | Formulation | Size |
|---|---|---|
| V7981-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7981-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7981SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

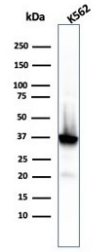
Recombinant MOUSE MONOCLONAL

**Bulk quote request**

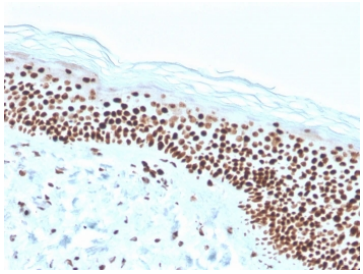
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Recombinant Mouse Monoclonal |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | rNPM1/1901 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P06748 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml (not suitable for frozen tissue sample testing)<br>Western Blot : 1-2ug/ml<br>Flow Cytometry : 1-2ug/million cells in 0.1ml |
| **Limitations** | This recombinant Nucleophosmin antibody is available for research use only. |



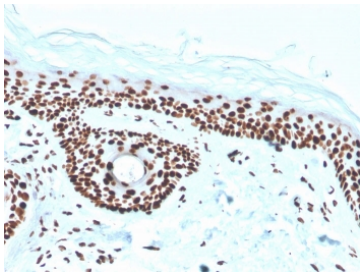

Flow cytometry testing of PFA-fixed human HeLa cells with recombinant Nucleophosmin antibody (clone rNPM1/1901); Red=isotype control, Blue= recombinant Nucleophosmin antibody.




Western blot testing of human K562 cell lysate with recombinant Nucleophosmin antibody. Predicted molecular weight ~38 kDa.



IHC staining of FFPE human skin with recombinant Nucleophosmin antibody (clone rNPM1/1901). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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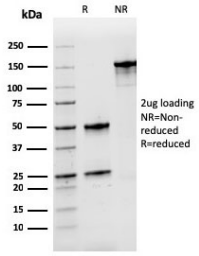


SDS-PAGE analysis of purified, BSA-free recombinant Nucleophosmin antibody (clone rNPM1/1901) as confirmation of integrity and purity.

## Description

Nucleophosmin (NPM) 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.

## Application Notes

Optimal dilution of the recombinant Nucleophosmin antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amion acids 185-287) was used as the immunogen for this recombinant Nucleophosmin antibody.

## Storage

Store the recombinant Nucleophosmin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).