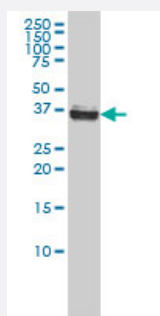


# NPM1 monoclonal antibody (M01), clone 3B2

Catalog # H00004869-M01

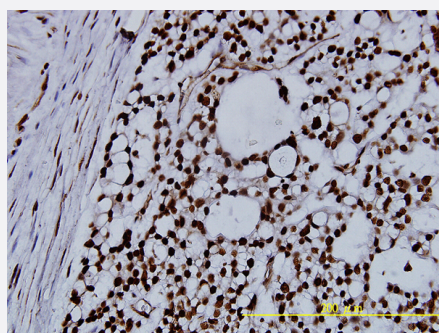
Size 100 ug

## Applications



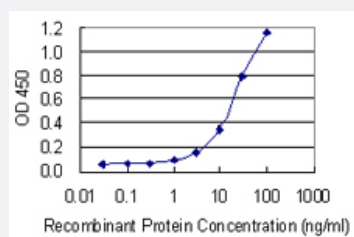
### Western Blot (Cell lysate)

NPM1 monoclonal antibody (M01), clone 3B2 Western Blot analysis of NPM1 expression in HeLa S3 NE (Cat # L013V3).



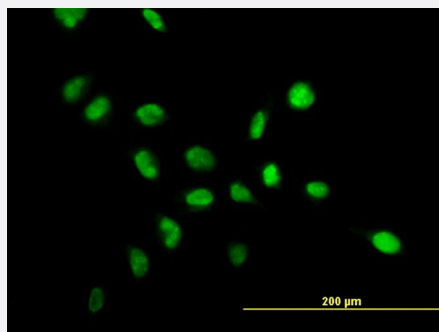
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NPM1 on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 5 ug/ml]



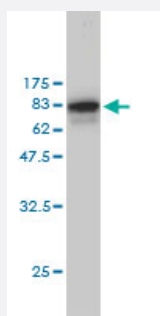
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPM1 is 0.3 ng/ml as a capture antibody.



## Immunofluorescence

Immunofluorescence of monoclonal antibody to NPM1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (58.08 KDa) .

## Specification

|                                      |                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Mouse monoclonal antibody raised against a full length recombinant NPM1.                                                                                                                                                                                                                                            |
| <b>Immunogen</b>                     | NPM1 (AAH02398.1, 1 a.a. ~ 294 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                |
| <b>Sequence</b>                      | MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAE<br>AMNYEGSPIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDE<br>EEEDVKLLSISGKRSAPGGGSKVPQKKVKLADEDDDDDEEDDDDDDDDDFDDEEAEEKA<br>PVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQESFKKQEKTPKTPKGPSSVEDIKAKMQAS<br>IEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL |
| <b>Host</b>                          | Mouse                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>                    | Human                                                                                                                                                                                                                                                                                                               |
| <b>Interspecies Antigen Sequence</b> | Mouse (93); Rat (93)                                                                                                                                                                                                                                                                                                |
| <b>Isotype</b>                       | IgG1 kappa                                                                                                                                                                                                                                                                                                          |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (58.08 KDa) .                                                                                                                                                                                                            |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                   |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                            |

## Applications

- Western Blot (Cell lysate)

NPM1 monoclonal antibody (M01), clone 3B2 Western Blot analysis of NPM1 expression in Hela S3 NE ( Cat # L013V3 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NPM1 on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NPM1 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to NPM1 on HeLa cell. [antibody concentration 10 ug/ml]

## Gene Info — NPM1

Entrez GeneID [4869](#)

GeneBank Accession# [BC002398](#)

Protein Accession# [AAH02398.1](#)

Gene Name NPM1

Gene Alias B23, MGC104254, NPM

Gene Description nucleophosmin (nucleolar phosphoprotein B23, numatrin)

Omim ID [164040 601626](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

NPM1 is a ubiquitously expressed nucleolar protein that shuttles between the nucleus and cytoplasm. It is implicated in multiple functions, including ribosomal protein assembly and transport, control of centrosome duplication, and regulation of the tumor suppressor ARF (MIM 600160). NPM1 mutations that relocalize NPM1 from the nucleus into the cytoplasm are associated with development of acute myeloid leukemia (AML; MIM 601626) (Garzon et al., 2008 [PubMed 18308931]).[supplied by OMIM]

## Other Designations

nucleolar phosphoprotein B23|nucleophosmin 1|nucleophosmin/nucleoplasmin family, member 1|numatrin

## Publication Reference

- [Retinoic acid and arsenic trioxide trigger degradation of mutated NPM1, resulting in apoptosis of AML cells.](#)

El Hajj H, Dassouki Z, Berthier C, Raffoux E, Ades L, Legrand O, Hleihel R, Sahin U, Tawil N, Salameh A, Zibara K, Darwiche N, Mohty M, Dombret H, Fenaux P, de Thé H, Bazarbachi A.

Blood 2015 May; 125(22):3447.

Application: IF, WB-Ce, Human, THP-1, OCI-AML3 cells

## Disease

- [Acute Disease](#)
- [Blast Crisis](#)
- [Cell Transformation](#)
- [Chromosome Aberrations](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Inversion](#)
- [Leukemia](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasm](#)
- [Recurrence](#)
- [Translocation](#)