Human Nucleophosmin (NPM1) type A mutation polyclonal antibody

Category	polyclonal antibody
Catalog No.	B-N-001
Applications	WB
Reactivity	Human

Immunogen information

Immunogen	A peptide corresponding to the C-terminal sequence of human NPM1 (mut-A)
UniProt ID	P06748
Synonyms	B23, NP38, Numatrin
Gene ID	4869

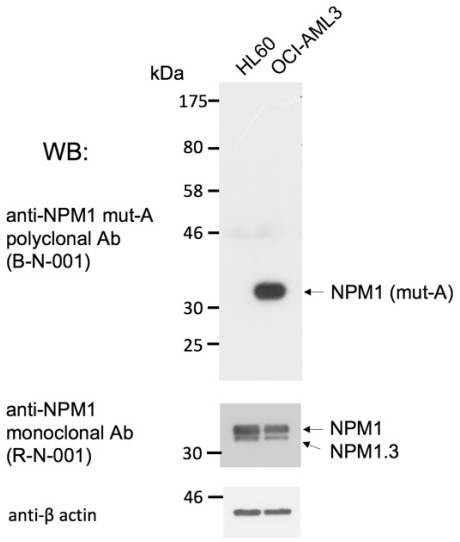
Product information

Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Lot No.	001
Concentration	0.4 mg/mL
Buffer	50% glycerol/PBS, pH7.4, w/o sodium azide
Storage	Store at -20°C.

Recommended dilutions

WB	1:1000 – 1:2000

Western blot



Detection of Endogenous NPM1 (mut-A) in OCI-AML3 Human leukemia Cell Line by Western Blot.

Endogenous NPM1(mut-A) in OCI-AML3 acute myeloid leukemia cells was detected by Western blotting with rabbit anti-human NPM1 mut-A polyclonal antibody (Catalog # B-N-001, upper panel).

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Background

Nucleophosmin was originally identified as a highly phosphorylated protein in the nucleolus. NPM1 also localizes to the nucleoplasm, and shuttles between the nucleus and the cytoplasm. NPM1 is involved in various biological processes such as ribosome biogenesis, centrosome duplication, genome instability and apoptosis. The overexpression of NPM1 has been observed in many types of solid tumors, including gastric, prostate, liver and colon. Translocation in the NPM1 gene has been reported for several hematopoietic malignancies; for example, t(2;5)(p23;q35) in 75% of anaplastic lymphoma kinase-positive anaplastic large cell lymphoma. Furthermore, approximately one-third of acute myeloid leukemia (AML) patients harbor frameshift mutations in exon 12 of the NPM1 gene, resulting in the generation of a nuclear export signal in the C-terminal region of NPM1 and localization of the mutant NPM1 to the cytoplasm. NPM1 type A mutation (NPM1 mut-A; TCTG insertion at the 960th nucleotide in exon 12) may be a good molecular marker for assessing the clinical status and predicting the outcomes in AML patients.

References for human NPM1 type A mutation polyclonal antibody (B-N-001)

PMID:	29507312	Journal:	Scientific Reports
Application:	WB	IF (2020):	4.380
Title:	Analysis of the oligomeric states of nucleophosmin using size exclusion chromatography.		

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