

Anti-Nucleophosmin [NA24] rAb

Catalogue number: 154830

Sub-type: Primary antibody

Images:

Contributor

Inventor:

Institute: Absolute Antibody; University of Oxford

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Nucleophosmin [NA24] rAb

Alternate name: Nucleolar Phosphoprotein B23; Nucleolar Protein NO38; Numatrin; NPM; Nucleophosmin/Nucleoplasmin Family; Testicular Tissue Protein Li 128; B23

Class: Recombinant

Conjugate: Unconjugated

Description: Recombinant antibody with use in understanding various nucleophosmin mutations and their associated diseases. Background and Research Application Nucleophosmin (NPM) also called B23, nutramin and NO38 is a ubiquitously expressed phosphoprotein involved in ribosome assembly/transport, cytoplasmic/nuclear trafficking, regulation of DNA polymerase alpha activity and centrosome duplication. It is also a crucial regulator of p53; it is involved in the acute response of mammalian cells to environmental stress, such as UV rays. NPM continuously shuttles between the nucleus and cytoplasm. NPM also localises between the paired centrioles of the centrosome and dissociates upon the phosphorylation of on Thr199 by CDK2/cyclin E prior to the initiation of centrosome duplication, an essential process for successful chromosome segregation during mitosis. The down-regulation of this protein results in the abnormal amplification of centrosomes which suggests that this protein may act as a suppressor of centrosome duplication. Aberrations involving nucleophosmin are found in multiple conditions, for instance in a form of non-Hodgkin lymphoma or acute promyelocytic leukaemia. This is a recombinant version of the anti NPM (NA24) monoclonal antibody. The epitope for this antibody lies within the N-terminal of NPM. It reacts with both WT-NPM and NPM-ALK, staining nuclei of neoplastic cells and providing diffuse cytoplasmic labelling.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Nucleophosmin recombinant protein
Immunogen UNIPROT ID: P06748
Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Nucleophosmin

Target alternate names:

Target background: Recombinant antibody with use in understanding various nucleophosmin mutations and their associated diseases. Background and Research Application Nucleophosmin (NPM) also called B23, nutramin and NO38 is a ubiquitously expressed phosphoprotein involved in ribosome assembly/transport, cytoplasmic/nuclear trafficking, regulation of DNA polymerase alpha activity and centrosome duplication. It is also a crucial regulator of p53; it is involved in the acute response of mammalian cells to environmental stress, such as UV rays. NPM continuously shuttles between the nucleus and cytoplasm. NPM also localises between the paired centrioles of the centrosome and dissociates upon the phosphorylation of on Thr199 by CDK2/cyclin E prior to the initiation of centrosome duplication, an essential process for successful chromosome segregation during mitosis. The down-regulation of this protein results in the abnormal amplification of centrosomes which suggests that this protein may act as a suppressor of centrosome duplication. Aberrations involving nucleophosmin are found in multiple conditions, for instance in a form of non-Hodgkin lymphoma or acute promyelocytic leukaemia. This is a recombinant version of the anti NPM (NA24) monoclonal antibody. The epitope for this antibody lies within the N-terminal of NPM. It reacts with both WT-NPM and NPM-ALK, staining nuclei of neoplastic cells and providing diffuse cytoplasmic labelling.

Molecular weight:

Ic50:

Applications

Application:
Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles
Shipping conditions: Shipping at 4° C

Related tools

Related tools: Anti-Nucleophosmin [NA24]

References

References: Chemokine expression in melanoma metastases associated with CD8+ T-cell recruitment. ; Harlin et al. 2009. Cancer Res. 69(7):3077-85. PMID: 19293190. ; Immunohistological detection of human cytotoxic/suppressor T cells using antibodies to a CD8 peptide sequence. ; Intraepithelial CD8+ tumor-infiltrating lymphocytes and a high CD8+/regulatory T cell ratio are associated with favorable prognosis in ovarian cancer. ; Mason et al. 1992. J Clin Pathol. 45(12):1084-8. PMID: 1479035. ; POLE Proofreading Mutations Elicit an Antitumor Immune Response in Endometrial Cancer. ; Sato et al. 2005. Proc Natl Acad Sci U S A. 102(51):18538-43. PMID: 16344461. ; van Gool et al. 2015. Clin Cancer Res. 21(14):3347-55. PMID: 25878334.