Anti-Nucleophosmin [NA24] mAb

Catalogue number: 151399
Sub-type: Primary antibody
Images:

Contributor

Inventor: Jacqueline Cordell
Institute: University of Oxford
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Nucleophosmin [NA24] mAb

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

Class: Monoclonal
Conjugate: Unconjugated
Description: Monoclonal antibody with use in understanding various nucleophosmin mutations and their associated diseases.
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: 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 nucleophasmin are found in multiple conditions, for instance in a form of non-Hodgkin lymphoma or acute promyelocytic leukaemia. 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: ChIP ; IHC ; IF ; IP ; WB
Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
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] recombinant antibody

References

References: Morphology and staining behavior of neutrophilic and eosinophilic granulocytes of the common marmoset (Callithrix jacchus). ; Bleyer et al. 2016. Exp Toxicol Pathol. :. PMID: 27165445. ; IgE and FceRI are highly expressed on innate cells in psoriasis. ; Differential neutrophil responses to bacterial stimuli: Streptococcal strains are potent inducers of heparin-binding protein and resistin-release. ; SnÄ‚Â¤ll et al. 2016. Sci Rep. 6:21288. PMID: 26887258. ; Yan et al. 2016. Br J Dermatol. :. PMID: 26853903. ; Hosseini et al. 2016. Part Fibre Toxicol. 13:2. PMID: 26758251. ; Hochman et al. 2015. MBio. 6(5):. PMID: 26396242. ; Fatal Pediatric Cerebral Malaria Is Associated with Intravascular Monocytes and Platelets That Are Increased with HIV Coinfection. ; Farrar et al. 2015. Am J Clin Nutr. :. PMID: 26178731. ; A randomized controlled trial of green tea catechins in protection against ultraviolet radiation-induced cutaneous inflammation. ; Nasser et al. 1996. Thorax. 51(1):64-70. PMID: 8658372. ; Effect of endobronchial aspirin challenge on inflammatory cells in bronchial biopsy samples from aspirin-sensitive asthmatic subjects. ; Ralfkiaer et al. 1989. Histopathology. 14(6):637-43. PMID: 2759560. ; Diagnosis of acute myeloid leukaemia with the use of monoclonal anti-neutrophil elastase (NP57) reactive with routinely processed biopsy samples. ; Pulford et al. 1988. J Clin Pathol. 41(8):853-60. PMID: 2844860. ; Use of monoclonal antibody against human neutrophil elastase in normal and leukaemic myeloid cells.