Best Tools for immunology Research

# B23 Monoclonal Antibody

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| **Catalog No :** | YM1014 |
| **Reactivity :** | Human;Mouse;Rat;Bovine;Pig;Rabbit |
| **Applications :** | WB;IF |
| **Target :** | Nucleophosmin |
| **Gene Name :** | NPM1 |
| **Protein Name :** | Nucleophosmin |
| **Human Gene Id :** | 4869 |
| **Human Swiss Prot No :** | P06748 |
| **Mouse Gene Id :** | 18148 |
| **Mouse Swiss Prot No :** | Q61937 |
| **Rat Gene Id :** | 25498 |
| **Rat Swiss Prot No :** | P13084 |
| **Immunogen :** | Purified recombinant human B23 protein fragments expressed in E.coli. |
| **Specificity :** | B23 Monoclonal Antibody detects endogenous levels of B23 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Monoclonal, Mouse |
| **Dilution :** | WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications. |
| **Purification :** | Affinity purification |
| **Concentration :** | 1 mg/ml |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 33kD

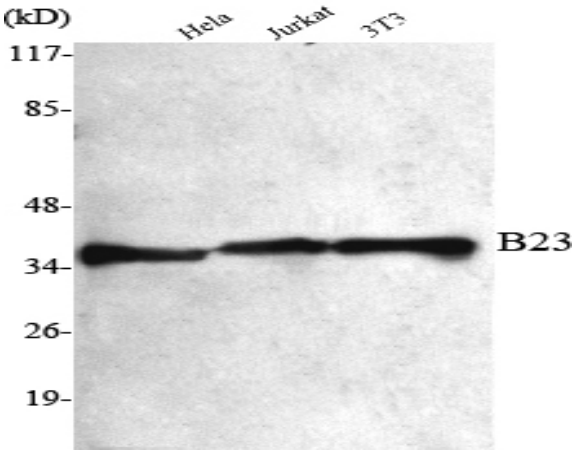
**Background :** This gene encodes a phosphoprotein which moves between the nucleus and the cytoplasm. The gene product is thought to be involved in several processes including regulation of the ARF/p53 pathway. A number of genes are fusion partners have been characterized, in particular the anaplastic lymphoma kinase gene on chromosome 2. Mutations in this gene are associated with acute myeloid leukemia. More than a dozen pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Nov 2009],

**Function :** disease:A chromosomal aberration involving NPM1 is a cause of myelodysplastic syndrome (MDS). Translocation t(3;5)(q25.1;q34) with MLF1.,disease:A chromosomal aberration involving NPM1 is found in a form of acute promyelocytic leukemia. Translocation t(5;17)(q32;q11) with RARA.,disease:A chromosomal aberration involving NPM1 is found in a form of non-Hodgkin lymphoma. Translocation t(2;5)(p23;q35) with ALK. The resulting chimeric NPM1-ALK protein homodimerize and the kinase becomes constitutively activated.,disease:Defects in NPM1 are associated with acute myelogenous leukemia (AML). Mutations in exon 12 affecting the C-terminus of the protein are associated with an aberrant cytoplasmic location.,function:Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressor

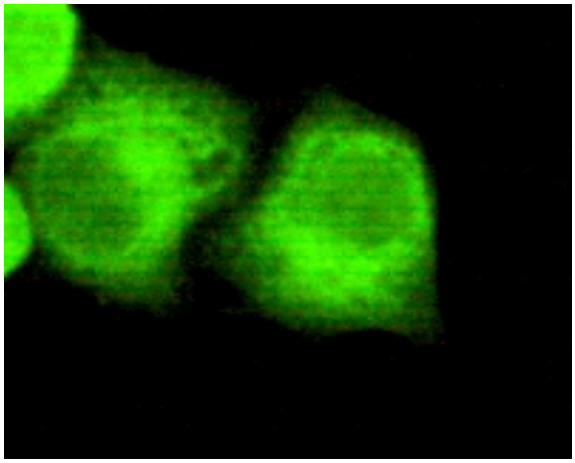
**Subcellular Location :** Nucleus, nucleolus . Nucleus, nucleoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Generally nucleolar, but is translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. Has been found in the cytoplasm in patients with primary acute myelogenous leukemia (AML), but not with secondary AML. Can shuttle between cytoplasm and nucleus. Co- localizes with the methylated form of RPS10 in the granular component (GC) region of the nucleolus. Colocalized with nucleolin and APEX1 in nucleoli. Isoform 1 of NEK2 is required for its localization to the centrosome during mitosis.

**Expression :** Amnion,B-cell lymphoma,Bone marrow,Brain,Cervix carcinoma,Colon carcinoma,Epithelium,Kidney

## Products Images




Western Blot analysis using B23 Monoclonal Antibody against HeLa, Jurkat, 3T3 cell lysate.



Immunofluorescence analysis of HeLa cells using B23 Monoclonal Antibody.