



## Nucleophosmin Mouse Monoclonal Antibody

E10-20001

**Background:** Nucleophosmin (NPM), also named B23 or NO38, is a major nucleolar protein which is 20 times more abundant in tumor or proliferating cells than in normal resting cells. NPM has been implicated in several distinct cellular functions, including assembly and transport of ribosomes, cytoplasmic/nuclear trafficking, regulation of DNA polymerase alpha activity, centrosome duplication and molecular chaperoning activities. The NPM portion contributes to transformation by providing a dimerization domain, which results in activation of the fused kinase.

**Catalog Number:** E10-20001

**Amount:** 100 $\mu$ g/100 $\mu$ l

**Clone Number:** 7H10B9

**Species:** Mouse IgG1

**MW:** 33kDa

**Aliases:** B23; NPM

**Entrez Gene:** 4869

**Immunogen:** Purified recombinant fragment of human NPM expressed in E. Coli.

**Storage:** Store at 4°C, for long term storage, store at -20°C.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human; Monkey

**Tested Applications:** WB, IHC, IF, ELISA. Not yet tested in other applications.

**Application notes:** WB.1/500 - 1/2000, IHC.1/200 - 1/1000, IF.1/200 - 1/1000, ELISA. Propose dilution 1/10000.

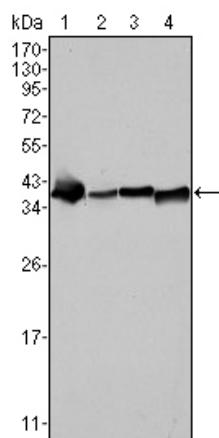


Figure 1. Western blot analysis using NPM mouse mAb against SMMC-7721 (1), HepG2 (2), Hela (3) and HEK293 (4) cell lysate.

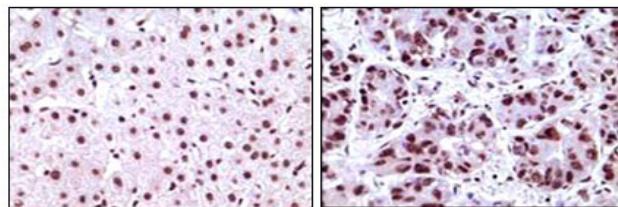


Figure 2. Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissues, showing nuclear localization using NPM mouse mAb with DAB staining.

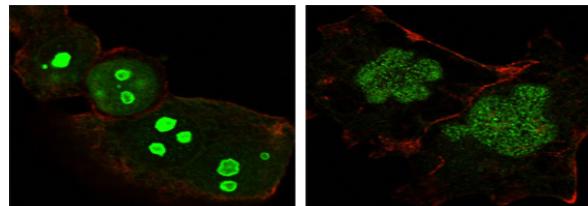


Figure 3. Confocal immunofluorescence analysis of Hela (left) and NTERA-2 (right) cells using NPM mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.