nm23-H1 monoclonal antibody

Catalog: MB66895 Host: Mouse Reactivity: Human

BackGround:

The NDK/NME/NM23 kinase family consists of at least eight distinct proteins that exhibit different cellular localization. Members of this group inhibit metastasis in a variety of tumor cell types. All NDK/NME/NM23 proteins possess nucleoside diphosphatase kinase (NDK) activity and catalyze the phosphorylation of nucleoside diphosphate to the corresponding nucleoside triphosphate to regulate a diverse array of cellular events. At least four classes of NDK biochemical activities have been described, including protein-protein interactions, regulation of GTP-binding protein function, DNA-associated activities, and histidine-dependent protein phosphotransferase activity . NDK/NME proteins participate in the regulation of a broad spectrum of cellular responses, including development, differentiation, proliferation, endocytosis, and apoptosis. Because of its role in metastasis suppression and oncogenesis, NDKA has been widely studied . NDKAand NDKB are encoded by adjacent NME1 and NME2 genes and share 90% sequence identity. Two serine residueson NDKA/NM23-H1 can be phosphorylated by AMPKα1, but only phosphorylation at Ser122 determines whether NDKA channels ATP to AMPKα1. This regulates AMPKα1 activity towards ACC1, an important regulator of fatty acid metabolism. Mutation of NDKB/NM23-H2 at Ser122in melanoma cells results in altered phosphoryl transfer activity .

Product:

Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 18 kDa

Swiss-Prot:

P15531

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

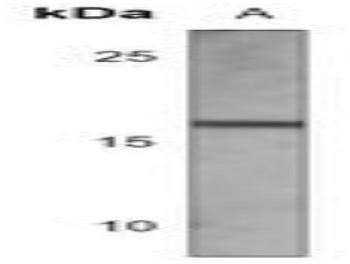
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

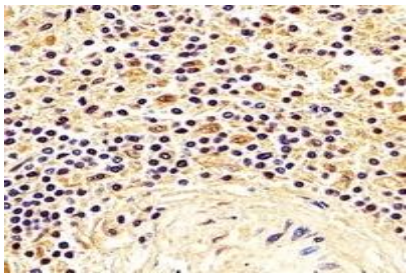
Specificity:

Recognizes endogenous levels of nm23-H1 protein.

DATA:



Western blot analysis of nm23-H1 expression in MCF7 (A) whole cell lysates.



Immunohistochemical analysis of nm23-H1 staining in human spleen formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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