nm23-H1 monoclonal antibody

Catalog: MB66623 Host: Mouse Reactivity: Human, Mouse, Rat

BackGround:

The NDK/NME/NM23 kinase family (encoded by the NME gene 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 (NME1/NM23-H1) has been widely studied. NDKA (NM23-H1) and NDKB (NM23-H2) are encoded by adjacent NME1 and NME2 genes and share 90% sequence identity. Two serine residues (Ser122 and Ser144) on 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 Ser122 (S122P) in melanoma cells results in altered phosphoryl transfer activity.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 18, 16 kDa

Swiss-Prot:

P15531

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

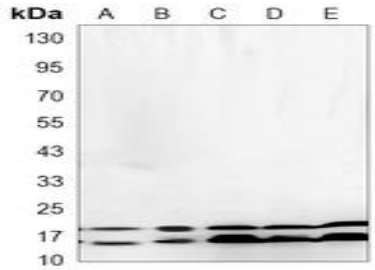
Storage&Stability:

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 A549 (A), MCF7 (B), NIH3T3 (C), C6 (D), Hela (E) whole cell lysates.

Note:

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

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