

Mouse Anti-NM23-H1 [NM301]: MC0264, MC0264RTU7

Intended Use: For Research Use Only

Description: Non-metastatic protein 23 homolog 1; also NDKA or NM23-H1 is a 19-20 kDa member of the NDK family of enzymes. NM23-H1 is ubiquitous in expression and performs multiple functions. It forms disulfide-linked homoheptamers, and heteroheptamers with NM23-H2, generating a nucleoside diphosphate kinase that catalyzes a phosphoryl transfer from ATP to a nucleoside diphosphate. It also shows His and Ser/Thr protein kinase activity and forms covalent linkages with molecules diverse as p53 and STRAP. It is found both intracellularly and in blood at ng/mL concentrations. Human NM23-H1 is 152 amino acids (aa) in length, contains one NDP kinase domain (aa 5-134), and shows acetylation at Ala2 and Lys56, plus phosphorylation at Tyr52, Thr94, Ser122, and Ser125. Human NM23-H1 shares 89% aa identity with human 17-18 kDa NM23-H2. The NM23 gene, a potential suppressor of metastasis, was originally identified by differential hybridization between two murine melanoma sub-lines, one with a high and the second with a low metastatic capacity. Highly metastatic sub-lines exhibit much lower levels of nm23 than less metastatic cells.

Specifications

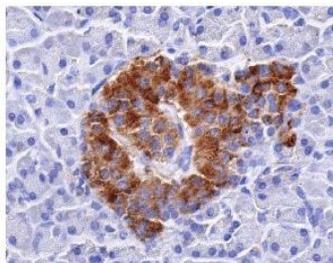
Clone: NM301
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Localization: Nucleus and/or cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF, IP
 Package:

Description	Catalog No.	Size
NM23-H1 Concentrated	MC0264	1 ml
NM23-H1 Prediluted	MC0264RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Prostate cancer, brain whole cell lysate; HeLa cells
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas showing cytoplasmic staining of Islets of Langerhans using DAB

References:

1. Role of nm23H1 in predicting metastases in prostatic carcinoma. Kumar A et al. Indian J Pathol Microbiol. 2018.
2. Nm23H1 mediates tumor invasion in esophageal squamous cell carcinoma by regulation of CLDN1 through the AKT signaling. Kuo KT et al. Oncogenesis. 2016.
3. Relationship between nm23H1 genetic instability and clinical pathological characteristics in Chinese digestive system cancer patients. Yang YQ et al. World J Gastroenterol. 2008.

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