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 homohexamers, and heterohexamers 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>NM23-H1 Concentrated</td>
<td>MC0264</td>
<td>1 ml</td>
</tr>
<tr>
<td>NM23-H1 Prediluted</td>
<td>MC0264RTU7</td>
<td>7 ml</td>
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</tbody>
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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.

References:

Doc. 100-MC0264
Rev. A

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