

DESCRIPTION

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| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse, and rat NM23-H1/H2 in Western blots. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human NM23-H1 Met1-Glu152 Accession # P15531 |
| Conjugate | Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

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| Western Blot | Optimal dilution of this antibody should be experimentally determined. |
| Immunocytochemistry | Optimal dilution of this antibody should be experimentally determined. |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

BACKGROUND

NM23-H1 (Non-metastatic protein 23 homolog 1; also NDKA) is a 17-20 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 histidine protein 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 (Non-metastatic protein 23 homolog 2; also NDKB), and 94% aa identity with mouse NM23-H1. A second H1 isoform named NM23-H1B with 25 additional aa at the N-terminus has also been described.

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