Human NM23-H1 Antibody

Monoclonal Mouse IgG_{2A} Clone # 642817

Catalog Number: MAB6256

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NM23-H1 in Western blots. In Western blots, no cross-reactivity with recombinant human NM23-H2 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 642817
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human NM23–H1 Met1-Glu152 Accession # P15531
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

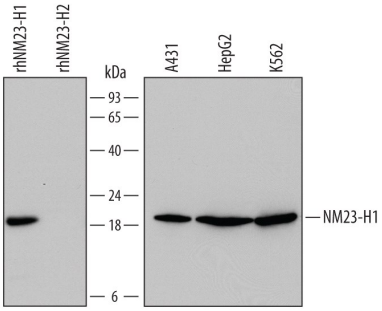
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human NM23-H1 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 0.5 µg/mL of Mouse Anti-Human NM23-H1 Monoclonal Antibody (Catalog # MAB6256) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human NM23-H1 and recombinant human NM23-H2 (10 ng/lane) were included. A specific band was detected for NM23-H1 at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NM23-H1 (Non-metastatic protein 23 homolog 1; also NDKA) 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 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956