Human NM23-H2 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6665T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NM23-H2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human NM23-H1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NM23-H2 Ala2-Glu152 Accession # P22392
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.*

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

PREPARATION AND STORAGE

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-H2 or NME-2 (non-metastatic cell 2; also Nucleoside diphosphate kinase B, nm23-H2/B, NDPK-B and PUF) is a 17-19 kDa class 1 member of the NME/NDPK family of molecules. It is widely expressed, found in both cytosol and nucleus, and participates in multiple activities. In conjunction with nm23-H1, NME-2 forms homo- and heterohexamers (three dimers or two trimers) that mediate the transfer of phosphate from ATP to nucleoside diphosphates. It also serves as a transcriptional regulator of genes such as c-myc and PDGF-A. Human NME-2 is 152 amino acids (aa) in length. It contains a kinase region (aa 5-134), two potential phosphorylation sites (Tyr52 and Thr94), a phosphohistidine residue at position 118, and multiple lysine acetylation sites. There is one potential NME-2 splice form that shows a six aa substitution for aa 77-152. The genes for NME-1 and NME-2 are adjacent, and an unusual splicing event generates a 33 kDa fusion protein (NM23-LV) that is composed of aa 1-114 of NME-1 plus a Thr insert that is N-terminally coupled to full-length NME-2. Full-length human NME-2 shares 88% and 98% aa identity with human NME-1 and mouse NME-2, respectively.

PRODUCT SPECIFIC NOTICES

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