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. Based on sequence analysis, nm23 appears highly related to nucleoside diphosphate kinases (NDPs). In humans, NDP kinases A and B are identical to two isotypes of human nm23 homologs, namely nm23-H1 and H2, respectively. nm23-H2 is identical in sequence to PuF, a transcription factor that binds to nuclelease-hypersensitive elements at positions 142-115 of the human C-Myc promotor.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: NME1 (human) mapping to 17q21.33; Nme1 (mouse) mapping to 11 D.

SOURCE
nm23-H1 (NM301) is a mouse monoclonal antibody raised against purified nm23-H1 of human origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
nm23-H1 (NM301) is available conjugated to agarose (sc-465 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-465 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-465 PE), fluorescein (sc-465 FITC), Alexa Fluor® 488, Alexa Fluor® 546, Alexa Fluor® 594 (sc-465 AF594) or Alexa Fluor® 47 (sc-465 AF47), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-465 AF680) or Alexa Fluor® 790 (sc-465 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
nm23-H1 (NM301) is recommended for detection of nm23-H1 of mouse, rat and human origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.