nm23-H1 (NM301): sc-465

BACKGROUND

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 nucleotide 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 promoter.

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 IgG 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 phycocerythrin (sc-465 PE), fluorescein (sc-465 FITC), Alexa Fluor® 488 (sc-465 AF488), Alexa Fluor® 546 (sc-465 AF546), Alexa Fluor® 594 (sc-465 AF594) or Alexa Fluor® 647 (sc-465 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; 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.

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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].


Molecular Weight of nm23-H1: 23 kDa.

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA

nm23-H1 (NM301): sc-465. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of Islets of Langerhans (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human prostate carcinoma tissue showing cytoplasmic and nuclear localization (B).

SELECT PRODUCT CITATIONS


RESEARCH USE

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