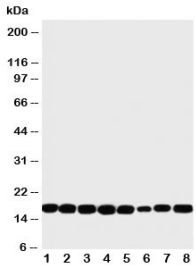
NM23 Antibody (R30927)

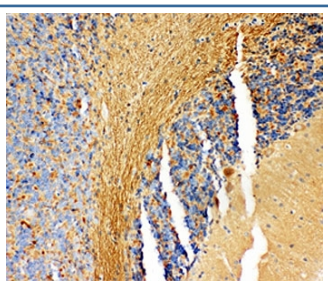
Catalog No.	Formulation	Size
R30927	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

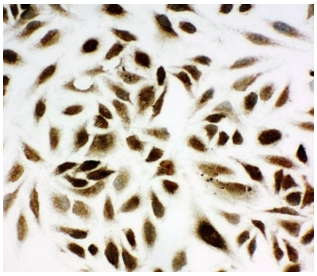
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P15531
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml Immunocytochemistry : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This NM23 antibody is available for research use only.



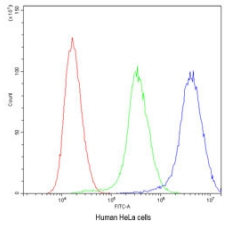
Western blot testing of rat lysate samples: 1) heart, 2) brain, 3) liver, 4) skeletal muscle and human lysate samples: 5) PANC-1, 6) HeLa, 7) SK-OV-3 and 8) COLO320. Predicted molecular weight ~17 kDa.



IHC-P: NM23 antibody testing of FFPE rat cerebellum tissue. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



ICC testing of NM23 antibody and HeLa cells.



Flow cytometry testing of human HeLa cells with NM23 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NM23 antibody.

Description

NME1 (NME/NM23 nucleoside diphosphate kinase 1), also called non-Metastatic protein 23 (NM23), is an enzyme that in humans encoded by the NME1 gene. The promoters of the mouse and human NME1 genes, like those of other NME genes, contain several binding sites for AP2, NF1, Sp1, LEF1, and response elements to glucocorticoid receptors. Immunofluorescence microscopy demonstrated colocalization of NME1 in nuclei of B cells expressing EBNA3C. Expression of EBNA3C reversed the ability of NME1 to inhibit migration of BL and breast carcinoma cells. NME1/NM23 bound SET and was released from inhibition by GZMA cleavage of SET. After GZMA loading or cytotoxic T lymphocyte attack, SET and NM23 translocated to the nucleus and SET was degraded, allowing NM23 to nick chromosomal DNA. Using a Drosophila model system,Dammai et al.(2003) showed that the Drosophila NME1 homolog, AWD, regulates trachea cell motility by modulating FGFR levels through a dynamin -mediated pathway.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the NM23 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human NM23 (EELVDYTSCAQNWIYE) was used as the immunogen for this NM23 antibody.

Storage

After reconstitution, the NM23 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.