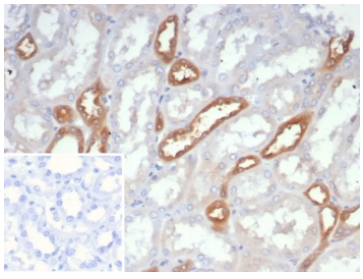
NDPK-B Antibody / Nucleoside diphosphate kinase B / NME2 [clone NME2/6436] (V5771)

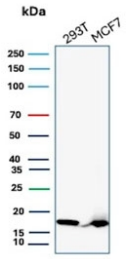
Catalog No.	Formulation	Size
V5771-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5771-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5771SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

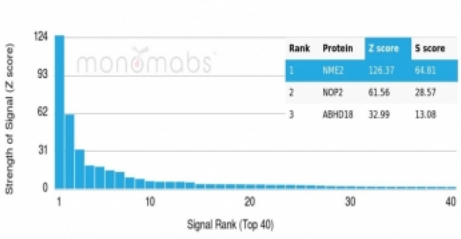
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NME2/6436
Purity	Protein G affinity
UniProt	P22392
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This NDPK-B antibody is available for research use only.



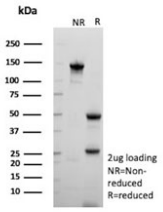
IHC staining of FFPE human kidney tissue with NDPK-B antibody (clone NME2/6436). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human 293T and MCF7 cell lysate with NDPK-B antibody (clone NME2/6436). Predicted molecular weight ~17 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using NDPK-B antibody (clone NME2/6436). These results demonstrate the foremost specificity of the NME2/6436 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free NDPK-B antibody (clone NME2/6436) as confirmation of integrity and purity.

Description

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 (NDP). 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 nuclease hypersensitive elements at positions 142 to 115 of the human c-Myc promotor.

Application Notes

Optimal dilution of the NDPK-B antibody should be determined by the researcher.

Immunogen

A recombinant full-length human Nucleoside diphosphate kinase B protein was used as the immunogen for the NDPK-B antibody.

Storage

Aliquot the NDPK-B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.