

Product datasheet for **CF501114**

NME4 Mouse Monoclonal Antibody [Clone ID: OTI5E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5E4
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human NME4 (NP_005000) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	20.6 kDa
Gene Name:	Homo sapiens NME/NM23 nucleoside diphosphate kinase 4 (NME4), transcript variant 1, mRNA; nuclear gene for mitochondrial product.
Database Link:	NP_005000 Entrez Gene 4833 Human O00746



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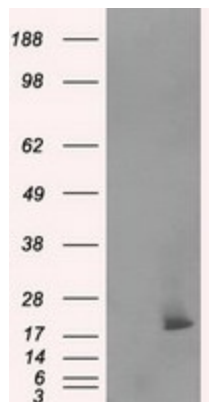
Background: The nucleoside diphosphate (NDP) kinases (EC 2.7.4.6) are ubiquitous enzymes that catalyze transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates. The enzymes are products of the nm23 gene family, which includes NME4.

Synonyms: NDPK-D; nm23-H4; NM23H4

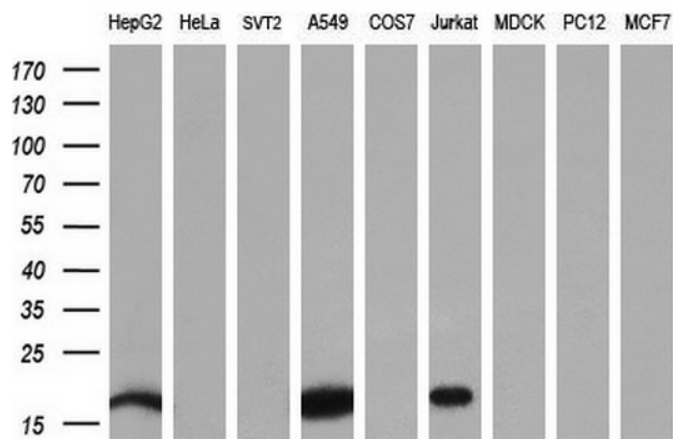
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism

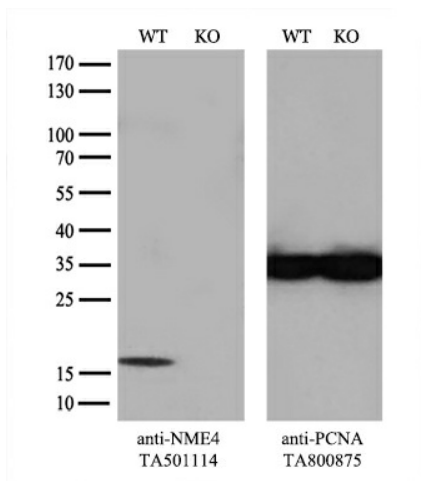
Product images:



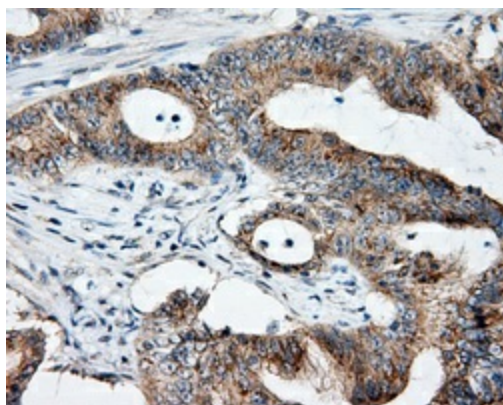
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NME4 ([RC202603], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NME4. Positive lysates [LY401559] (100ug) and [LC401559] (20ug) can be purchased separately from OriGene.



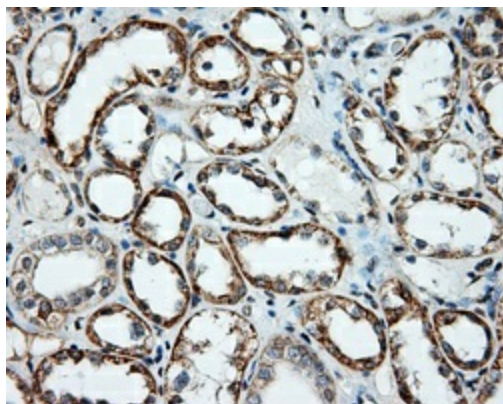
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NME4 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



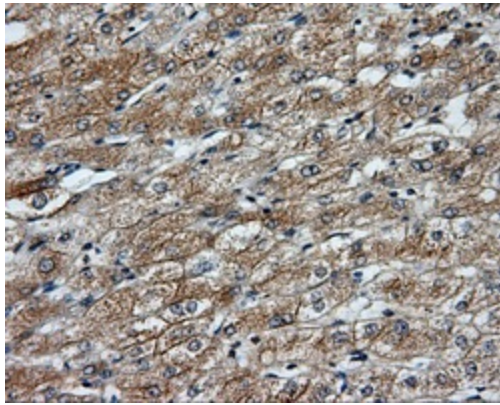
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and NME4-Knockout HEK293T cells (KO, Cat# [LC870008]) were separated by SDS-PAGE and immunoblotted with anti-NME4 monoclonal antibody [TA501114] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



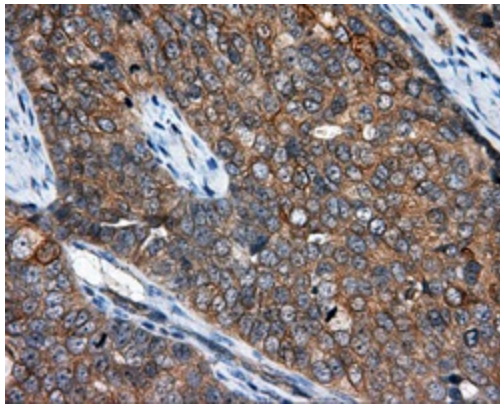
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-NME4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501114], Dilution 1:50)



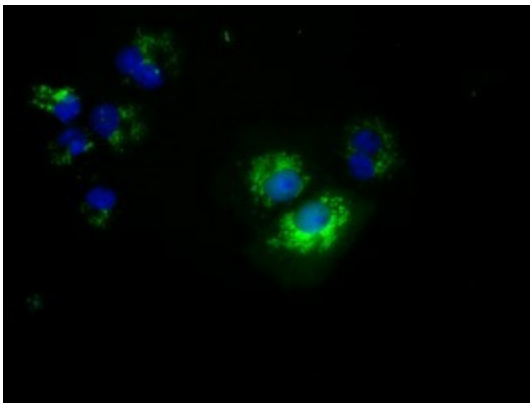
Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-NME4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501114], Dilution 1:50)



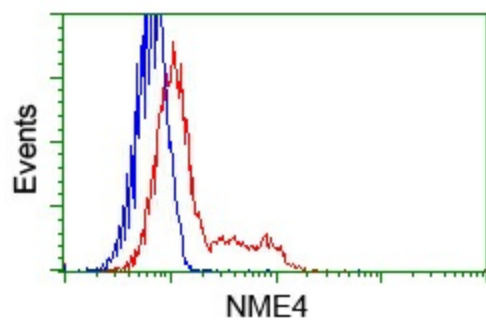
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-NME4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501114], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-NME4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501114], Dilution 1:50)



Anti-NME4 mouse monoclonal antibody ([TA501114]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NME4 ([RC202603]).



HEK293T cells transfected with either pCMV6-ENTRY NME4 ([RC202603]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-NME4 mouse monoclonal ([TA501114]), and then analyzed by flow cytometry.