

## Product datasheet for CF501117

### NME4 Mouse Monoclonal Antibody [Clone ID: OTI1E3]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI1E3   |
| 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:              | NME/NM23 nucleoside diphosphate kinase 4   |
| Database Link:          | <a href="#">NP_005000</a><br><a href="#">Entrez Gene 4833 Human</a><br><a href="#">O00746</a>  |


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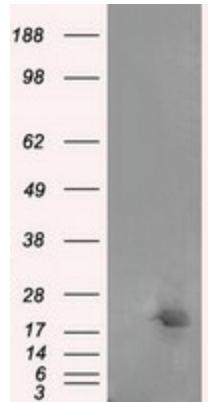
**Background:** The nucleoside diphosphate (NDP) kinases (EC 2.7.4.6) are ubiquitous enzymes that catalyze transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates. The enzymes are products of the nm23 gene family, which includes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

**Synonyms:** NDPK-D; nm23-H4; NM23H4

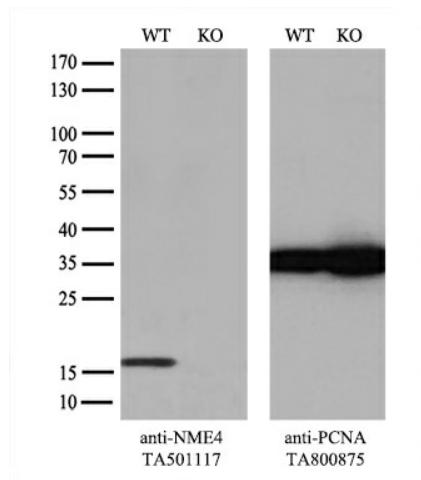
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism, Pyrimidine metabolism

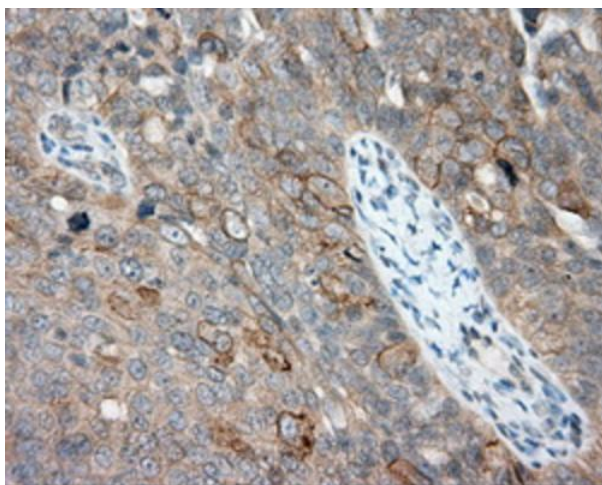
### Product images:



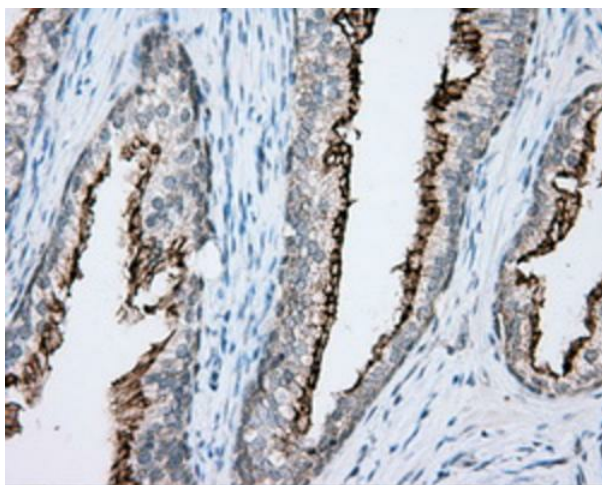
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NME4 ([RC202603], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NME4. Positive lysates [LY401559] (100ug) and [LC401559]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



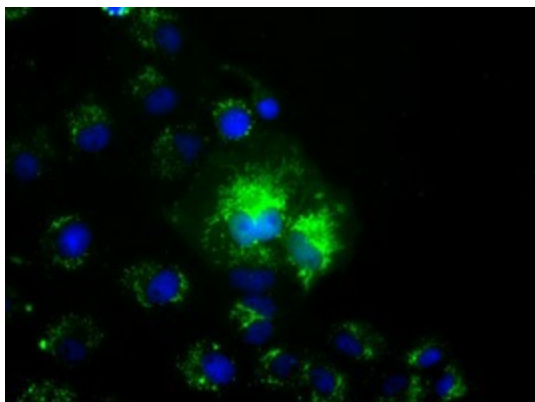
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and NME4-Knockout HEK293T cells (KO, Cat# [LC870008]) were separated by SDS-PAGE and immunoblotted with anti-NME4 monoclonal antibody [TA501117] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



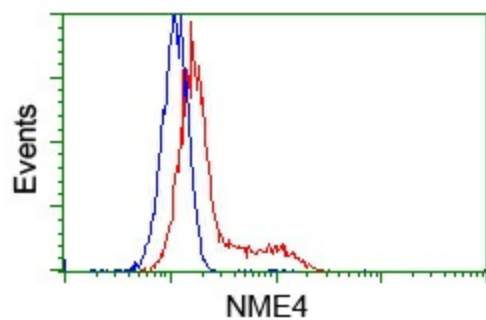
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-NME4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501117], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded prostate 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, [TA501117], Dilution 1:50)



Anti-NME4 mouse monoclonal antibody ([TA501117]) 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 ([TA501117]), and then analyzed by flow cytometry.