Anti-NME2 Antibody

Catalog Number: PA1830

About NME2

NME2 (NME/NM23 nucleoside diphosphate kinase 2) also called non-metastatic cells 2, protein (NM23B) expressed in, NM23-H2, NM23B or NDPKB, is identical to the beta subunit of human erythrocyte NDP kinase. Little to no expression was detected in other mouse tissues examined. Using Northern blot analysis, Masse et al. (2002) detected high expression of mouse Nme2, which they called nm23-M2, in heart, liver, and kidney, with intermediate expression in skeletal muscle. In situ hybridization of 15-day postcoitum mouse embryos showed ubiquitous Nme2 expression. The mouse and human NME2 genes contain 5 exons and span about 6.0 kb. The NME2 gene is mapped on 17q21.33. Srivastava et al. (2006) concluded that histidine phosphorylation regulates KCa3.1 channel activity and that NDPKB is critical to the channel activity and the activation of CD4 T cells.

Overview

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Anti-NME2 Antibody</th>
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<tbody>
<tr>
<td>Reactive Species</td>
<td>Human, Mouse, Rat</td>
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<tr>
<td>Description</td>
<td>Rabbit IgG polyclonal antibody for Nucleoside diphosphate kinase B (NME2) detection. Tested with WB, IHC-P, ICC in Human; Mouse; Rat.</td>
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<tr>
<td>Conjugate</td>
<td>No</td>
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<td>Application</td>
<td>IHC-P, ICC, WB</td>
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<tr>
<td>Clonality</td>
<td>Polyclonal</td>
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<tr>
<td>Formulation</td>
<td>Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.</td>
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<tr>
<td>Storage Instructions</td>
<td>At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.</td>
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<tr>
<td>Host</td>
<td>Rabbit</td>
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<tr>
<td>Uniprot ID</td>
<td>P22392</td>
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</tbody>
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Technical Details

| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human NME2 (137-152aa EELVDYKSCAHDWVYE), different from the related mouse and rat sequences by one amino acid. |
| Predicted Reactive Species | Rabbit |
Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.

Cross Reactivity
No cross reactivity with other proteins

Isotype
N/A

Form
Lyophilized

Concentration
Add 0.2ml of distilled water will yield a concentration of 500μg/ml.

Purification
Immunogen affinity purified.

Suggested Dilutions
Immunocytochemistry, 0.5-1μg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1μg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5μg/ml, Human, Rat, Mouse

For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-NME2 Antibody (PA1830) Images

Anti-NME2 antibody, PA1830, Western blotting
Lane 1: Rat Heart Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Liver Tissue Lysate
Lane 4: Rat Skeletal Muscle Tissue Lysate
Lane 5: PANC Cell Lysate
Lane 6: HELA Cell Lysate
Lane 7: SMMC Cell Lysate
Lane 8: U87 Cell Lysate
Lane 9: COLO320 Cell Lysate

Anti-NME2 antibody, PA1830, IHC(P)
IHC(P): Human Intestinal Cancer Tissue
Figure 5. IHC analysis of NME2 using anti-NME2 antibody (PA1830).
NME2 was detected in paraffin-embedded section of mouse intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-NME2 Antibody (PA1830) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.
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