Voltage-dependent R-type calcium channel subunit alpha-1E, Rabbit Polyclonal Antibody
Voltage-gated calcium channel subunit alpha Cav2.3, Calcium channel, L type, alpha-1 polypeptide, isoform 6, Brain calcium channel II, RBE-II, RBE2

**BACKGROUND**
Voltage-sensitive calcium channels (VSCCs) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1E gives rise to R-type calcium currents. R-type calcium channels belong to the 'high-voltage activated' (hva) group and are blocked by nickel, and partially by omega-agatoxin-iiia (omega-aga-IIIa). They are however insensitive to dihydropyridines (DHP), omega-conotoxin-GVIA (omega-ctx-GVIA), and omega-agatoxin-IVA (omega-aga-IVA). Calcium channels containing alpha-1e subunit could be involved in the modulation of firing patterns of neurons.

**IMMUNOGEN**
Synthetic peptide derived from the rat alpha1E calcium channel conjugated to KLH

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>SIZE</th>
<th>FORM</th>
<th>HOST/CLONE</th>
<th>FORMULATION</th>
<th>CONCENTRATION</th>
<th>ISOTYPE</th>
<th>APPLICATIONS</th>
<th>SPECIES REACTIVITY</th>
<th>ACCESSION NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1509P</td>
<td>100 µg</td>
<td>Unconjugated</td>
<td>Rabbit</td>
<td>Provided as solution in phosphate buffered saline with 0.08% sodium azide</td>
<td>See vial for concentration</td>
<td>IgG</td>
<td>Western Blot</td>
<td>Human</td>
<td>Q07652, Human</td>
</tr>
</tbody>
</table>

**POSITIVE CONTROL/TISSUE EXPRESSION**

**COMMENTS**
This antibody can be used for Western blotting (5-10 µg/ml). Optimal concentration should be evaluated by serial dilutions.
**PURIFICATION**
Ammonium Sulfate Precipitation

**SHIP CONDITIONS**
Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**
Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**
Products are stable for one year from purchase when stored properly

**REFERENCES**

2. Chen, S. et al. 'Alpha 1E subunit of the R-type calcium channel is associated with myelinogenesis.' J. Neurocytol. 29 (10), 719-28 (2000)

**PRODUCT SPECIFIC REFERENCES**