**BACKGROUND**

Endothelial cell differentiation gene-3 (EDG3) belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG3 is sphingosine-1-phosphate. There are 8 known members of the EDG receptor family. They have been implicated in mediating growth related effects such as induction of cellular proliferation, alterations in differentiation and survival suppression of apoptosis. They also evoke cellular effector functions that are dependent on cytoskeletal responses such as contraction, secretion, adhesion and chemotaxis. EDG receptors are developmentally regulated and differ in tissue distribution. The couple to multiple types of G proteins to signal through ras and MAP kinase, rho, phospholipase C and several protein tyrosine kinases. EDG3 is expressed in cardiovascular, leukocyte-containing and other tissues.

**IMMUNOGEN**

Synthetic peptide derived from the C terminal of the EDG3 (S1P3) protein.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>X1589P</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE</td>
<td>100 µg</td>
</tr>
<tr>
<td>FORM</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>HOST/CLONE</td>
<td>Rabbit</td>
</tr>
<tr>
<td>FORMULATION</td>
<td>Provided as solution in phosphate buffered saline with 0.08% sodium azide</td>
</tr>
<tr>
<td>CONCENTRATION</td>
<td>See vial for concentration</td>
</tr>
<tr>
<td>ISOTYPE</td>
<td></td>
</tr>
<tr>
<td>APPLICATIONS</td>
<td>Western Blot</td>
</tr>
<tr>
<td>SPECIES REACTIVITY</td>
<td>Human</td>
</tr>
<tr>
<td>ACCESSION NUMBER</td>
<td>Q99500, Human</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

X1589P

**COMMENTS**

Antibody can be used for Western blotting (5-10 µg/ml). Optimal concentration should be evaluated by serial dilutions. Due to low expression of EDG receptors, we recommend use of Pierce Femto Signal substrate for western blot development.
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


PRODUCT SPECIFIC REFERENCES