**BACKGROUND**

The rat alpha 2b adrenergic receptor is a G protein coupled receptor which acts through Gi2 and is responsible for Cellular communication and signal transduction. These receptors are linked to pertussis toxin-sensitive G proteins. Agonist binding leads to inhibition of adenyl cyclase, inhibition of Ca(2+) channels and activation of K(+) channels. Recently, three distinct subtypes of alpha(2)-AR were described, alpha(2A)-AR, alpha(2B)-AR and alpha(2C)-AR. At present, it is unknown which of these alpha(2)-AR subtype(s) may regulate insulin secretion.

**IMMUNOGEN**

Antibody raised to synthetic peptide internal sequence corresponding to the third intracellular loop of rat alpha 2b adrenergic receptor.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>X1630M</th>
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<tbody>
<tr>
<td>SIZE</td>
<td>100 µg</td>
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<tr>
<td>FORM</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>HOST/CLONE</td>
<td>Mouse Clone 5G10</td>
</tr>
<tr>
<td>FORMULATION</td>
<td>Provided as solution in phosphate buffered saline with 0.08% sodium azide</td>
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<tr>
<td>CONCENTRATION</td>
<td>See vial for concentration</td>
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<tr>
<td>ISOTYPE</td>
<td>IgG1</td>
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<td>APPLICATIONS</td>
<td>Western Blot, Immunohistochemistry</td>
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<tr>
<td>SPECIES REACTIVITY</td>
<td>Rat, Mouse</td>
</tr>
<tr>
<td>ACCESSION NUMBER</td>
<td>Human P19328</td>
</tr>
</tbody>
</table>

**REFERENCES**

2. Yun, J., et al. 'Gene expression profile of neurodegeneration induced by alpha1B-adrenergic receptor overactivity: NMDA/GABAA dysregulation and apoptosis.' Brain 2003, Pt 12, 2667-81
6. Savola, JM, et al. 'Fipamezole (JP-1730) is a potent alpha2 adrenergic receptor antagonist that reduces levodopa-induced dyskinesia in the MPTP-lesioned primate model of Parkinson's disease.' Mov Disord 2003, 8, 872-83
7. Sivenius, K, et al. 'A deletion in the alpha2B-adrenergic receptor gene and autonomic nervous function in central obesity.' Obes Res 2003, 8, 962-70
8. Ge, H, et al. 'Constitutive precoupling to G(i) and increased agonist potency in the alpha(2B)-adrenoceptor.' Biochem Biophys Res Commun 2003, 306, 4, 959-65

**PRODUCT SPECIFIC REFERENCES**

Western blot analysis using alpha2B adrenergic receptor antibody on MDCK cells transfected to produce alpha2B receptor protein.
**Positive Control/Tissue Expression**

MDCK cells transfected with rat alpha2B adrenergic receptors.

**Comments**

Antibody detects alpha2B Adrenergic Receptors (1-5 µg/ml) and immunohistochemistry. Optimal concentration should be evaluated by serial dilutions.

**Purification**

Protein A/G Chromatography

**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. Yun, J., et al. 'Gene expression profile of neurodegeneration induced by alpha1B-adrenergic receptor overactivity: NMDA/GABAA dysregulation and apoptosis.' Brain 2003, Pt 12, 2667-81
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**Product Specific References**