**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 adenylyl 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.

**Ordering Information**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>X1630M</th>
</tr>
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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>
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<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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<tr>
<td>Applications</td>
<td>Western Blot, Immunohistochemistry</td>
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<tr>
<td>Species Reactivity</td>
<td>Rat, Mouse</td>
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<tr>
<td>Accession Number</td>
<td>Human P19328</td>
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</tbody>
</table>

**Immunogen**

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

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
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**