Overview

Product name: Anti-ITPR2 antibody
Description: Rabbit polyclonal to ITPR2
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA
Species reactivity: Reacts with: Recombinant fragment
Predicted to work with: Mouse, Rat, Human
Immunogen: Synthetic peptide (Human) from a C terminal sequence.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 50% Glycerol, PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab55981 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 308 kDa. This antibody has been tested in Western blot against the recombinant peptide used as an immunogen. We have no data on detection of endogenous protein.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent dilution.</td>
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</tbody>
</table>

Target
<table>
<thead>
<tr>
<th>Function</th>
<th>Receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium. This release is regulated by cAMP both dependently and independently of PKA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue specificity</td>
<td>Isoform Short is found in skeletal muscle and heart.</td>
</tr>
<tr>
<td>Involvement in disease</td>
<td>Anhidrosis, isolated, with normal sweat glands</td>
</tr>
<tr>
<td>Sequence similarities</td>
<td>Belongs to the InsP3 receptor family. Contains 5 MIR domains.</td>
</tr>
<tr>
<td>Domain</td>
<td>The receptor contains a calcium channel in its C-terminal extremity. Its large N-terminal cytoplasmic region has the ligand-binding site in the N-terminus and modulatory sites in the middle portion immediately upstream of the channel region.</td>
</tr>
<tr>
<td>Post-translational modifications</td>
<td>Phosphorylation by cAMP-dependent PKA on Ser-937 increases calcium release.</td>
</tr>
<tr>
<td>Cellular localization</td>
<td>Endoplasmic reticulum membrane.</td>
</tr>
</tbody>
</table>

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