**Product datasheet**

**Anti-ITPR2 antibody ab55981**

**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>
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<tr>
<td>ELISA</td>
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<td>Use at an assay dependent dilution.</td>
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</table>
**Function**  
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.

**Tissue specificity**  
Isoform Short is found in skeletal muscle and heart.

**Involvement in disease**  
Anhidrosis, isolated, with normal sweat glands

**Sequence similarities**  
Belongs to the InsP3 receptor family.  
Contains 5 MIR domains.

**Domain**  
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.

**Post-translational modifications**  
Phosphorylation by cAMP-dependent PKA on Ser-937 increases calcium release.

**Cellular localization**  
Endoplasmic reticulum membrane.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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