Product Datasheet

ITPR2 Antibody
NB100-2466

Unit Size: 0.1 mg
Store at -20C. Avoid freeze-thaw cycles.

Reviews: 1  Publications: 7

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### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at -20°C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA</td>
</tr>
</tbody>
</table>

### Product Description

- **Host**: Goat
- **Gene ID**: 3709
- **Gene Symbol**: ITPR2
- **Species**: Human, Mouse, Rat
- **Reactivity Notes**: Rat reactivity reported in scientific literature (PMID: 25921245). Mouse reactivity reported in scientific literature (PMID: 20814235). Predicted cross-reactivity based on sequence identity: Canine, Bovine.
- **Specificity/Sensitivity**: No cross-reactivity expected with other types of ITPR.
- **Immunogen**: Peptide with sequence C-PIEESNILSPVQD corresponding to internal region according to NP_002214.2.

### Notes

Please note, this antibody is considered Innovators Grade. Innovators Grade antibodies are generally unvalidated and require additional characterization for most new species/applications. Novus has made these antibodies available through our Innovators Reward program. Complete an online review with image, detailing your positive or negative results. In return, you receive a discount voucher for 100% of the purchase price of the reviewed product. Please contact us at innovators@novusbio.com for more details.

### Product Application Details

- **Applications**: Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
- **Recommended Dilutions**: Western Blot 1:5000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 3.75 ug/ml, Peptide ELISA Detection limit 1:128000
- **Application Notes**: WB: Preliminary experiments gave an approx. 28-30 kDa band in human heart lysates after 0.1 ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 308 kDa band according to NP_002214.2. The 28-30 kDa band was successfully blocked by incubation with the immunizing peptide. IHC: Paraffin embedded Human Kidney, Skin and Heart. Use in Immunocytochemistry/Immunofluorescence reported in multiple pieces of scientific literature.
Western Blot: ITPR2 Antibody [NB100-2466] - 2 sec exposure using NB100-2466 on 80 ug total cell lysates listed above. Primary antibody applied at 1:500 overnight at 4degC, secondary donkey anti-goat applied for 2 hours at room temperature at 1:5000. (Data provided by Karen McColl at Case Western Reserve University)


Immunohistochemistry-Paraffin: ITPR2 Antibody [NB100-2466] - (3.75ug/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Immunohistochemistry-Paraffin: ITPR2 Antibody [NB100-2466] - (3.75ug/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.
Publications

Kaufman AM Non-canonical members of circuits: A role for the locus coeruleus in reward related place field plasticity, and investigating differences in astrocyte calcium signaling between hippocampal layers Thesis Jan 1 2020 12:00AM (ICC/IF, Mouse)


Futatsugi A, Nakamura T, Yamada MK et al. IP3 receptor types 2 and 3 mediate exocrine secretion underlying energy metabolism. Science 2005 Sep 30 [PMID: 16195467]


Details:
In this study involving hypertrophy and heart failure models, goat polyclonal anti-IP3R2 antibody from Novus Biologicals (ITPR2 antibody, NB100-2466) was used for ICC-IF immunostaining of Human and Mouse cardiomyocytes isolated from nonfailing and failing hearts (Figure 2 B). Antibody also used for WB in human heart homogenate (Figure S5C) and for immunogold labeling/transmission immuno-electron microscopy in mouse hearts (Figure 2 D).

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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