




## Product datasheet

### Anti-ITPR2 antibody ab104550

[3 Images](#)

#### Overview

<b>Product name</b>	Anti-ITPR2 antibody
<b>Description</b>	Goat polyclonal to ITPR2
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Dog 
<b>Immunogen</b>	Synthetic peptide: C-PIEESNILSPVQD , corresponding to internal sequence amino acids 1152-1164 of Human ITPR2.  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human heart, skin and kidney tissues.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab104550 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 3.75 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### 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.

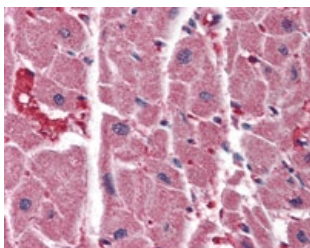
### Post-translational modifications

Phosphorylation by cAMP-dependent PKA on Ser-937 increases calcium release.

### Cellular localization

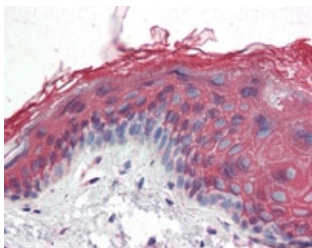
Endoplasmic reticulum membrane.

## Images



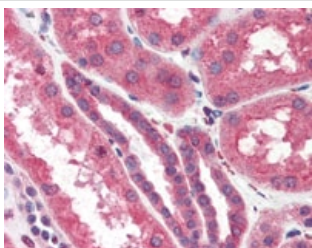
ab104550 at 3.75µg/ml staining ITPR2 in Human heart by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ITPR2 antibody (ab104550)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ITPR2 antibody (ab104550)

ab104550 at 3.75µg/ml staining ITPR2 in Human skin by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ITPR2 antibody (ab104550)

ab104550 at 3.75µg/ml staining ITPR2 in Human kidney by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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