




Product datasheet

Anti-ITPR2 antibody ab5805

[4 References](#) [2 Images](#)

Overview

Product name	Anti-ITPR2 antibody
Description	Rabbit polyclonal to ITPR2
Host species	Rabbit
Tested applications	Suitable for: ICC, IHC-Fr Unsuitable for: WB
Species reactivity	Reacts with: Rat, Human Predicted to work with: Cow 
Immunogen	Synthetic peptide corresponding to Rat ITPR2 aa 317-334. Sequence: ELNPDYRDAQNEGKTVRD (Peptide available as ab5842) <div>  Run BLAST with  Run BLAST with </div>
Positive control	IHC-Fr: Rat brain tissue. ICC: SH-SY5Y cells.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab5805 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
ICC		Use a concentration of 2 µg/ml.
IHC-Fr		1/100.

Application notes

Is unsuitable for WB.

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.

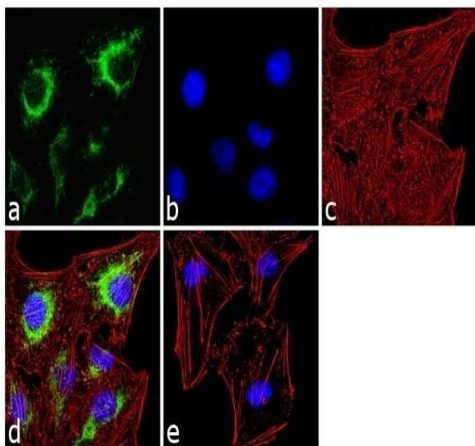
Post-translational modifications

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

Cellular localization

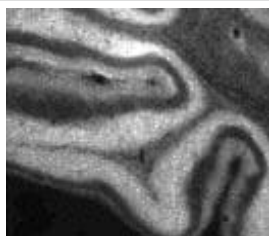
Endoplasmic reticulum membrane.

Images



Immunocytochemistry - Anti-ITPR2 antibody
(ab5805)

4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilised SH-SY5Y (human neuroblastoma cell line from bone marrow) cells labeling ITPR2 using ab5805 at 2 µg/ml in 0.1% BSA for 3 hours at RT, followed by a Goat Anti-Rabbit (H&L) AlexaFluor® secondary antibody (Green (a)). The nuclear counter stain is DAPI (Blue (b)). F-actin is stained with AlexaFluor® 555-Rhodamine (Red (c)). Panel D shows the merged image. Panel (e) is a secondary antibody only control.



Immunohistochemistry (Frozen sections) - Anti-ITPR2 antibody (ab5805)

Shows immunolocalization of ITPR2 in rat brain using ab5805.

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

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