abcam

Product datasheet

Anti-ITPR2 antibody ab55981

2 References

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee 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.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. 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.

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.

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