


Anti-TPC2 antibody ab119915

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

Overview

Product name	Anti-TPC2 antibody
Description	Rabbit polyclonal to TPC2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human TPC2 (N terminal).
Positive control	MCF7 cell lysate, Human fetal small intestine tissue.
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	Lyophilized: Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituent: 1% BSA
Purity	Immunogen affinity purified
Purification notes	ab119915 is purified by a peptide affinity column.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab119915 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
WB		1/500 - 1/1000. Detects a band of approximately 98 kDa (predicted molecular weight: 85 kDa).
IHC-P		1/100 - 1/500.

Target

Function

Nicotinic acid adenine dinucleotide phosphate (NAADP) receptor that may function as one of the major voltage-gated Ca(2+) channels (VDCC) across the lysosomal membrane. May be involved in smooth muscle contraction.

Tissue specificity

Widely expressed. Expressed at high level in liver and kidney.

Sequence similarities

Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. Two pore calcium channel subfamily.

Domain

Each of the two internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.

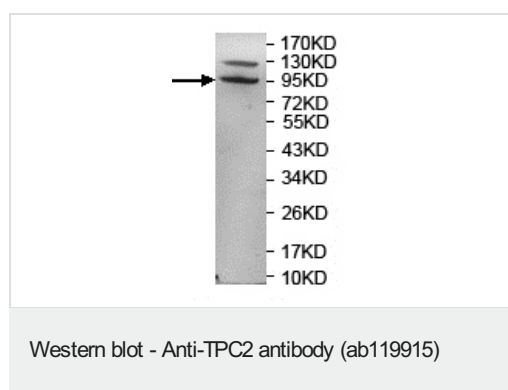
Post-translational modifications

N-glycosylated.

Cellular localization

Lysosome membrane. Only the acidic lysosomal fraction is sensitive to NAADP.

Images



Anti-TPC2 antibody (ab119915) at 1/500 dilution + MCF7 cell lysate

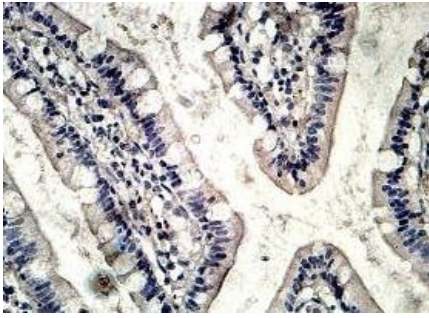
Predicted band size: 85 kDa

The amount of protein per lane: 30ug

PVDF membrane

Blocking solution: 5% (W/V) skim milk, with 1 X TBST buffer

Shake membrane at room temperature with ab119915, 1/500, for 30 minutes, then transfer to 4°C overnight.



ab119915 at 1/100 dilution staining TPC2 in Formalin-fixed, Paraffin-embedded Human fetal small intestine tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPC2 antibody (ab119915)

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

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