

For Research Use Only

TRPC6 Polyclonal antibody

Catalog Number: 18236-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

18236-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12976

GenBank Accession Number:

BC093658

GeneID (NCBI):

7225

UNIPROT ID:

Q9Y210

Full Name:

transient receptor potential cation channel, subfamily C, member 6

Calculated MW:

931 aa, 106 kDa

Observed MW:

100-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:200-1:800

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

FC, IF, IP, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain, COLO 320 cells, mouse lung tissue

IP: mouse lung tissue,

IHC: human placenta tissue,

IF: HeLa cells,

Background Information

Transient receptor potential canonical (TRPC) channels mediate the influx of different types of cations through the cell membrane and are involved in many functions of the organism (PMID: 28508319). The TRPC subfamily consists of seven members, TRPC1, TRPC2, TRPC3, TRPC4, TRPC5, TRPC6, TRPC7 (PMID: 32872338). TRPC6 is a Ca(2+)-permeable non-selective cation channel expressed in most human tissues. TRPC6 has been considered as potential therapeutic targets for malignant glioma treatment (PMID: 35489424).

Notable Publications

Author	Pubmed ID	Journal	Application
Meitian Wang	31622821	Biomaterials	WB,IF
Vladimir Riazanski	26604306	Proc Natl Acad Sci U S A	IF
Xi He	33649466	Lab Invest	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

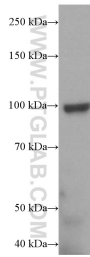
T: 4006900926

E: Proteintech-CN@ptglab.com

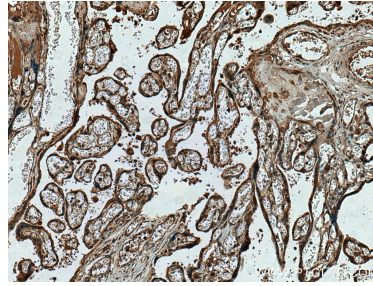
W: ptgcn.com

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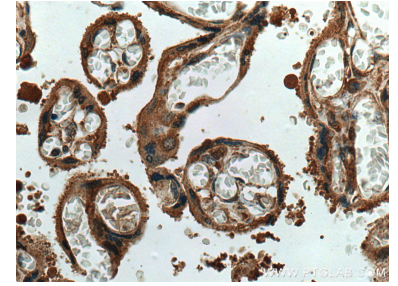
Selected Validation Data



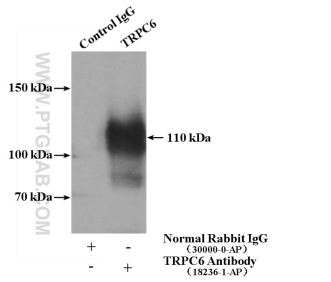
mouse brain tissue were subjected to SDS PAGE followed by western blot with 18236-1-AP (TRPC6 antibody) at dilution of 1:500.



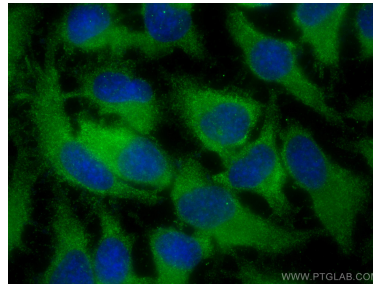
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18236-1-AP (TRPC6 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



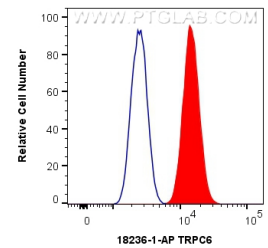
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18236-1-AP (TRPC6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TRPC6 (IP:18236-1-AP, 4ug; Detection:18236-1-AP 1:300) with mouse lung tissue lysate 3600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using TRPC6 antibody (18236-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10⁶ A549 cells were intracellularly stained with 0.4 ug Anti-Human TRPC6 (18236-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).