


Anti-TRPC6 antibody [3F2.H10.F2] α b105845

★★★★★ [2 Abreviews](#) [2 Images](#)

Overview

Product name	Anti-TRPC6 antibody [3F2.H10.F2]
Description	Mouse monoclonal [3F2.H10.F2] to TRPC6
Host species	Mouse
Specificity	Cross-reactivity with TRPC6 from other sources has not been determined.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Chimpanzee 
Immunogen	Synthetic peptide corresponding to a region near the C terminal of Human TRPC6 (NP_004612).
Positive control	Human adrenal (cortex) 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	Liquid
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	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.88% Sodium chloride
Purity	Protein A purified
Purification notes	Purified from concentrated tissue culture supernate by Protein A chromatography.
Clonality	Monoclonal
Clone number	3F2.H10.F2
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab105845 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)	1/500 - 1/2000. Predicted molecular weight: 106 kDa.
IHC-P	★★★★★ (1)	Use a concentration of 2.5 µg/ml.

Target

Function

Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C. Seems not to be activated by intracellular calcium store depletion.

Tissue specificity

Expressed primarily in placenta, lung, spleen, ovary and small intestine. Expressed in podocytes and is a component of the glomerular slit diaphragm.

Involvement in disease

Defects in TRPC6 are the cause of focal segmental glomerulosclerosis type 2 (FSGS2) [MIM:603965]. A renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation.

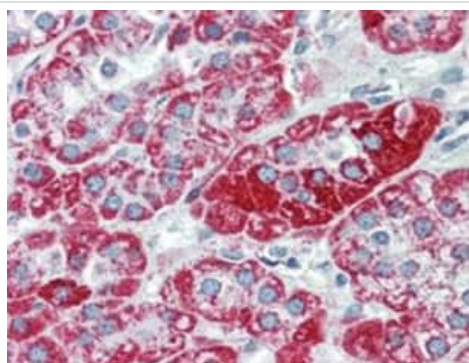
Sequence similarities

Belongs to the transient receptor (TC 1.A.4) family. STpC subfamily. TRPC6 sub-subfamily. Contains 4 ANK repeats.

Cellular localization

Membrane.

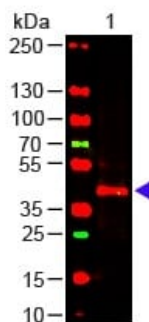
Images



ab105845 at 2.5 µg/ml staining TRPC6 in Human adrenal (cortex) tissue by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue.

The image shows strong staining with minimal background staining. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPC6 antibody [3F2.H10.F2] (ab105845)



Western blot analysis of ab105845 with mouse kidney (10ug) at the dilution 1/1000. Secondary antibody (DyLight™ 649 donkey anti-mouse) was used at the dilution 1/20000

Western blot - Anti-TRPC6 antibody [3F2.H10.F2]
(ab105845)

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

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