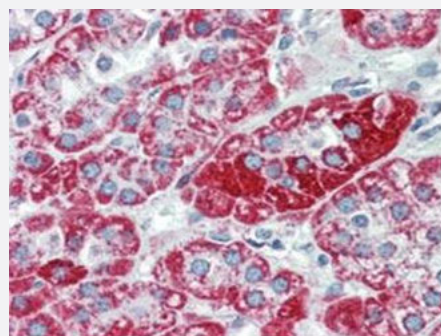


TRPC6 monoclonal antibody, clone 3F2.H10.F2

Catalog # MAB8167

Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry using TRPC6 monoclonal antibody, clone 3F2.H10.F2 (Cat # MAB8167) shows detection of TRPC6 in human adrenal (cortex) tissue (40X). The antibody was used a dilution to 2.5 ug/mL . The image shows strong staining with minimal background staining. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.

Personal communication, Andrew Elston, Lifespan Biosciences, Seattle, WA.

Specification

Product Description Mouse monoclonal antibody raised against synthetic peptide of TRPC6.

Immunogen A synthetic peptide corresponding to C-terminus of human TRPC6 .

Host Mouse

Reactivity Chimpanzee, Human

Form Liquid

Recommend Usage ELISA (1:10000-1:50000)
Western Blot (1:500-1:2000)
Immunohistochemistry (2.5 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer In 20 mM KH₂PO₄, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Storage Instruction Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry using TRPC6 monoclonal antibody, clone 3F2.H10.F2 (Cat # MAB8167) shows detection of TRPC6 in human adrenal (cortex) tissue (40X). The antibody was used a dilution to 2.5 ug/mL . The image shows strong staining with minimal background staining. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal communication, Andrew Elston, Lifespan Biosciences, Seattle, WA.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — TRPC6

Entrez GeneID [7225](#)

Gene Name TRPC6

Gene Alias FLJ11098, FLJ14863, FSGS2, TRP6

Gene Description transient receptor potential cation channel, subfamily C, member 6

Omim ID [603652](#) [603965](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene forms a receptor-activated calcium channel in the cell membrane. The channel is activated by diacylglycerol and is thought to be under the control of a phosphatidylinositol second messenger system. Activation of this channel occurs independently of protein kinase C and is not triggered by low levels of intracellular calcium. Defects in this gene are a cause of focal segmental glomerulosclerosis 2 (FSGS2). [provided by RefSeq]

Other Designations transient receptor potential channel 6

Publication Reference

- [TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function.](#)

Reiser J, Polu KR, Moller CC, Kenlan P, Altintas MM, Wei C, Faul C, Herbert S, Villegas I, Avila-Casado C, McGee M, Sugimoto H, Brown D, Kalluri R, Mundel P, Smith PL, Clapham DE, Pollak MR.

Nature Genetics 2005 Jul; 37(7):739.

Application: IEF, IF, IHC-Fr, IP, WB, Mouse Rat, Kidney glomerulus, Podocytes

- [Direct activation of human TRPC6 and TRPC3 channels by diacylglycerol.](#)

Hofmann T, Obukhov AG, Schaefer M, Harteneck C, Gudermann T, Schultz G.

Nature 1999 Jan; 397(6716):259.

- [Identification and assignment of the human transient receptor potential channel 6 gene TRPC6 to chromosome 11q21-->q22.](#)

D'Esposito M, Strazzullo M, Cuccurese M, Spalluto C, Rocchi M, D'Urso M, Ciccodicola A.

Cytogenetics and Cell Genetics 1998 Jan; 83(1-2):46.

Disease

- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glomerulosclerosis](#)
- [Hypertension](#)
- [Liver Cirrhosis](#)