

**Goat Anti-TRPC6 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2116b****Specification**

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**Goat Anti-TRPC6 Antibody - Product Information**

Application	FC, E
Primary Accession	<a href="#">O9Y210</a>
Other Accession	<a href="#">NP_004612</a> , <a href="#">7225</a>
Reactivity	Mouse
Predicted	Human, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	106326

**Goat Anti-TRPC6 Antibody - Additional Information****Gene ID** 7225**Other Names**

Short transient receptor potential channel 6, TrpC6, Transient receptor protein 6, TRP-6, TRPC6, TRP6

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-TRPC6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-TRPC6 Antibody - Protein Information****Name** TRPC6 {ECO:0000303|PubMed:9930701, ECO:0000312|HGNC:HGNC:12338}**Function**

Thought to form a receptor-activated non-selective calcium permeant cation channel (PubMed:&lt;a href="http://www.uniprot.org/citations/19936226" target="\_blank"&gt;19936226&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/23291369" target="\_blank"&gt;23291369&lt;/a&gt;). 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 (PubMed:<a href="http://www.uniprot.org/citations/26892346" target="\_blank">26892346</a>). Seems not to be activated by intracellular calcium store depletion.

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

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

**Goat Anti-TRPC6 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-TRPC6 Antibody - Images****Goat Anti-TRPC6 Antibody - Background**

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).

**Goat Anti-TRPC6 Antibody - References**

Essential role of TRPC6 channels in G2/M phase transition and development of human glioma. Ding X, et al. J Natl Cancer Inst, 2010 Jul 21. PMID 20554944.  
Lack of association between transient receptor potential cation channel 6 polymorphisms and primary membranous glomerulonephritis. Chen WC, et al. Ren Fail, 2010 Jul. PMID 20540633.  
Renal TRPopathies. Dietrich A, et al. J Am Soc Nephrol, 2010 May. PMID 20395377.  
Involvement of Rab9 and Rab11 in the intracellular trafficking of TRPC6. Cayouette S, et al. Biochim Biophys Acta, 2010 Jul. PMID 20346379.  
Genetic risk factors for hepatopulmonary syndrome in patients with advanced liver disease. Roberts KE, et al. Gastroenterology, 2010 Jul. PMID 20346360.