



P2Y11 (W-17): sc-69590

BACKGROUND

P2Y purinoceptor 11 (P2Y11) is a 374 amino acid protein belonging to the G protein-coupled receptor one family. P2Y11 is a multi-pass cell membrane protein that acts as a receptor for both ATP and ADP coupled to G proteins. Due to these interactions, P2Y11 is involved in phosphatidylinositol-calcium and adenylyl cyclase pathways. Induced by DMSO and retinoic acid, P2Y11 is highly expressed in spleen tissue. A putative *trans*-splicing event involving the gene that encodes P2Y11 and an upstream gene encoding P2Y11 has been found to result in a fusion protein, designated P2Y11-PPAN.

REFERENCES

- Communi, D., et al. 1997. Cloning of a human purinergic P2Y receptor coupled to phospholipase C and adenylyl cyclase. *J. Biol. Chem.* 272: 31969-31973.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602697. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Lee, D.H., et al. 2006. Expression of P2 receptors in human B cells and Epstein-Barr virus-transformed lymphoblastoid cell lines. *BMC Immunol.* 7: 22.
- Ecke, D., et al. 2006. Opposite diastereoselective activation of P2Y1 and P2Y11 nucleotide receptors by adenosine 5'-O-(α -boranotriphosphate) analogues. *Br. J. Pharmacol.* 149: 416-423.
- Lakshmi, S. and Joshi, P.G. 2006. Activation of Src/kinase/phospholipase C/mitogen-activated protein kinase and induction of neurite expression by ATP, independent of nerve growth factor. *Neuroscience* 141: 179-189.
- Sundqvist, M. 2007. Developmental changes of purinergic control of intestinal motor activity during metamorphosis in the African clawed frog, *Xenopus laevis*. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 292: R1916-R1925.
- Amisten, S., et al. 2007. Increased risk of acute myocardial infarction and elevated levels of C-reactive protein in carriers of the Thr 87 variant of the ATP receptor P2Y11. *Eur. Heart J.* 28: 13-18.

CHROMOSOMAL LOCATION

Genetic locus: P2RY11 (human) mapping to 19p13.2.

SOURCE

P2Y11 (W-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of P2Y11 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69590 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

P2Y11 (W-17) is recommended for detection of P2Y11 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for P2Y11 siRNA (h): sc-76026, P2Y11 shRNA Plasmid (h): sc-76026-SH and P2Y11 shRNA (h) Lentiviral Particles: sc-76026-V.

Molecular Weight of P2Y11: 40 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.