SANTA CRUZ BIOTECHNOLOGY, INC.

P2RY8 (Y-20): sc-83936

BACKGROUND

G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein-coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. P2RY8 (purinergic receptor P2Y, G protein-coupled, 8), also known as P2Y8, is a 359 amino acid multi-pass membrane protein that localizes to the cell membrane and belongs to the G protein-coupled receptor family. Expressed at low levels in lung, heart and kidney, P2RY8 may function as a receptor for purines that are coupled to G proteins and may also play a role in mental retardation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: P2RY8 (human) mapping to Xp22.33, Yp11.32.

SOURCE

P2RY8 (Y-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of P2RY8 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.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83936 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

P2RY8 (Y-20) is recommended for detection of P2RY8 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

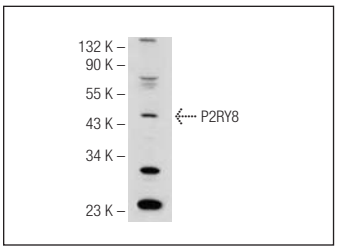
Suitable for use as control antibody for P2RY8 siRNA (h): sc-91574, P2RY8 shRNA Plasmid (h): sc-91574-SH and P2RY8 shRNA (h) Lentiviral Particles: sc-91574-V.

Molecular Weight of P2RY8: 41 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



P2RY8 (Y-20): sc-83936. Western blot analysis of P2RY8 expression in Jurkat whole cell lysate.

PROTOCOLS

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