

# GPR116 (Y-19): sc-68978

## 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. GPR116 (G protein-coupled receptor 116) is a 1,346 amino acid multi-pass membrane protein that contains one SEA domain, one GPS domain and 3 Ig-like domains and belongs to the GPR family. Existing as a disulfide-linked homodimer at the cell surface, GPR116 exists as multiple alternatively spliced isoforms and is thought to play a role in regulating and maintaining proper acid-base balance throughout the cell.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GPR116 (human) mapping to 6p12.3; Gpr116 (mouse) mapping to 17 B3.

## SOURCE

GPR116 (Y-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of GPR116 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.

## PRODUCT

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

Blocking peptide available for competition studies, sc-68978 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

GPR116 (Y-19) is recommended for detection of GPR116 of mouse, rat and 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 GPR116 siRNA (h): sc-75168, GPR116 siRNA (m): sc-75169, GPR116 shRNA Plasmid (h): sc-75168-SH, GPR116 shRNA Plasmid (m): sc-75169-SH, GPR116 shRNA (h) Lentiviral Particles: sc-75168-V and GPR116 shRNA (m) Lentiviral Particles: sc-75169-V.

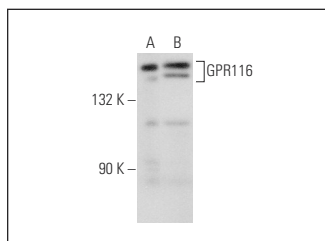
Molecular Weight of GPR116: 149 kDa.

Positive Controls: Y79 cell lysate: sc-2240 or A549 cell lysate: sc-2413.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



GPR116 (Y-19): sc-68978. Western blot analysis of GPR116 expression in Y79 (A) and A549 (B) whole cell lysates.

## RESEARCH USE

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