

# GPR30 (K-16)-R: sc-48523-R

## BACKGROUND

G protein-coupled receptors (GPCRs), also designated seven transmembrane (7TM) receptors and heptahelical receptors, are a protein family which interact with G proteins (heterotrimeric GTPases) to synthesize intracellular second messengers such as diacylglycerol, cyclic AMP, inositol phosphates and calcium ions. Their diverse biological functions range from vision and olfaction to neuronal and endocrine signaling and are involved in many pathological conditions. G protein receptor 30 (GPR30), also designated chemokine receptor-like 2 (CMKRL2), is a 375 amino acid protein orphan GPCR. GPR30 is an intracellular transmembrane estrogen receptor localized to the endoplasmic reticulum which binds estrogen and estrogen derivatives.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GPER (human) mapping to 7p22.3; Gper (mouse) mapping to 5 G2.

## SOURCE

GPR30 (K-16)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of GPR30 of human origin.

## 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-48523 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PR30 (K-16)-R is recommended for detection of GPR30 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).

GPR30 (K-16) is also recommended for detection of GPR30 in additional species, including canine.

Suitable for use as control antibody for GPR30 siRNA (h): sc-60743, GPR30 siRNA (m): sc-60744, GPR30 siRNA (r): sc-156143, GPR30 shRNA Plasmid (h): sc-60743-SH, GPR30 shRNA Plasmid (m): sc-60744-SH, GPR30 shRNA Plasmid (r): sc-156143-SH, GPR30 shRNA (h) Lentiviral Particles: sc-60743-V, GPR30 shRNA (m) Lentiviral Particles: sc-60744-V, and GPR30 shRNA (r) Lentiviral Particles: sc-156143-V.

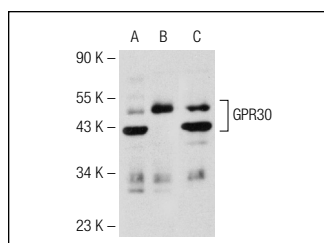
Molecular Weight of GPR30: 38 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, MCF7 whole cell lysate: sc-2206 or JAR cell lysate: sc-2276.

## 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



GPR30 (K-16)-R: sc-48523-R. Western blot analysis of GPR30 expression in HeLa (A), ZR-75-1 (B) and JAR (C) whole cell lysates.

## 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.