**BACKGROUND**

The PAQR superfamily of receptors include AdipoR1, AdipoR2, and PAQR3-PAQR9. PAQR proteins encode functional receptors with a broad range of ligand specificities. The best characterized family members are AdipoR1 and AdipoR2, which regulate fatty acid oxidation and the uptake of glucose by adiponectin. Certain PAQR family members have been shown to specifically bind progesterone and mediate non-genomic effects. In yeast, since PAQR progesterone-dependent signaling does not require heterotrimeric G proteins, it is suspected that PAQRs may function as a novel class of G protein coupled receptors. PAQR3 (progesterin and adipoc Q receptor family member 3), also designated Raf kinase trapping to Golgi, is a 311 amino acid multi-pass membrane protein that is localized to the Golgi apparatus membrane. By sequestering it to the Golgi, PAQR3 acts as a spatial regulator of RAF1 kinase.

**REFERENCES**


4. Thomas, P. 2008. Characteristics of membrane progestin receptor α (mPRα) and progesterone membrane receptor component 1 (PGRMC1) and their roles in mediating rapid progestin actions. Front Neuroendocrinol. 29: 292-312.


**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-161992 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

PAQR3 (T-12) is recommended for detection of PAQR3 of mouse, rat and 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); non-cross-reactive with other PAQR family members.

PAQR3 (T-12) is also recommended for detection of PAQR3 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for PAQR3 siRNA (h): sc-89094, PAQR3 siRNA (m): sc-152019, PAQR3 shRNA Plasmid (h): sc-89094-SH, PAQR3 shRNA Plasmid (m): sc-152019-SH, PAQR3 shRNA (h) Lentiviral Particles: sc-89094-V and PAQR3 shRNA (m) Lentiviral Particles: sc-152019-V.

Molecular Weight of PAQR3: 36 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.

**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.

**PROTOCOLS**

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

**CHROMOSOMAL LOCATION**

Genetic locus: PAQR3 (human) mapping to 4q21.21; Paqr3 (mouse) mapping to 5 E3.

**SOURCE**

PAQR3 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of PAQR3 of human origin.