

Pael-R (H-250): sc-292396

BACKGROUND

Pael-R (Parkin-associated endothelin receptor-like receptor), also known as GPR37 (G protein-coupled receptor 37), EDNRBL or ETBR-LP-1 (endothelin B receptor-like protein 1), is a 613 amino acid multi-pass membrane protein that belongs to the G-protein coupled receptor 1 family. Pael-R is expressed in spinal cord and brain, with lower levels found in liver, testis and placenta. When overexpressed, Pael-R causes cells to unfold and accumulate, eventually causing dopaminergic neuronal death in juvenile Parkinson disease (PDJ). Pael-R functions as an orphan receptor and also forms a complex with CHIP, HSP 70 and Parkin. The gene encoding Pael-R maps to human chromosome 7, which comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome and Williams-Beuren syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPR37 (human) mapping to 7q31.33.

SOURCE

Pael-R (H-250) is a rabbit polyclonal antibody raised against amino acids 31-280 mapping within an N-terminal extracellular domain of Pael-R of human origin.

PRODUCT

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

APPLICATIONS

Pael-R (H-250) is recommended for detection of Pael-R of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 Pael-R siRNA (h): sc-106350, Pael-R shRNA Plasmid (h): sc-106350-SH and Pael-R shRNA (h) Lentiviral Particles: sc-106350-V.

Molecular Weight of Pael-R: 67 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.

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.