



PCYOX1 (S-20): sc-82011

BACKGROUND

PCYOX1 (prenylcysteine oxidase 1), also known as prenylcysteine lyase or PCL1, is a 505 amino acid FAD-dependent thioether oxidase belonging to the prenylcysteine oxidase family. Ubiquitously expressed, PCYOX1 has been found to catalyze the degradation of prenylcysteine into free cysteines and a hydrophobic isoprenoid, and is released during the degradation of prenylated proteins. PCYOX1 specifically cleaves the thioether bond of prenyl-L-cysteines, such as farnesylcysteine and geranylgeranylgeranyl-L-cysteines. PCYOX1 is glycosylated at multiple N-glycosylation sites and is encoded by a gene that maps to human chromosome 2p14. PCYOX1 has recently been implied to play a significant role in atherogenesis, and may function as a VLDL (very low-density lipoprotein)-associated protein.

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CHROMOSOMAL LOCATION

Genetic locus: PCYOX1 (human) mapping to 2p14; Pcyox1 (mouse) mapping to 6 D1.

RESEARCH USE

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

SOURCE

PCYOX1 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PCYOX1 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-82011 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PCYOX1 (S-20) is recommended for detection of PCYOX1 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).

Suitable for use as control antibody for PCYOX1 siRNA (h): sc-76093, PCYOX1 siRNA (m): sc-76094, PCYOX1 shRNA Plasmid (h): sc-76093-SH, PCYOX1 shRNA Plasmid (m): sc-76094-SH, PCYOX1 shRNA (h) Lentiviral Particles: sc-76093-V and PCYOX1 shRNA (m) Lentiviral Particles: sc-76094-V.

Molecular Weight of PCYOX1: 57 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.

PROTOCOLS

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