

PCYOX1 (E-21): sc-133896

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-cysteine. 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PCYOX1 (human) mapping to 2p14.

SOURCE

PCYOX1 (E-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic PCYOX1 peptide 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 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

PCYOX1 (E-21) is recommended for detection of PCYOX1 of 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), immunohistochemistry (including paraffin-embedded sections) (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 shRNA Plasmid (h): sc-76093-SH and PCYOX1 shRNA (h) Lenti-viral Particles: sc-76093-V.

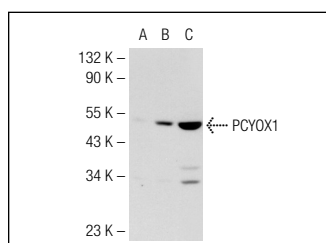
Molecular Weight of PCYOX1: 57 kDa.

Positive Controls: PCYOX1 (h3): 293T Lysate: sc-171502, IMR-32 cell lysate: sc-2409 or Jurkat whole cell lysate: sc-2204.

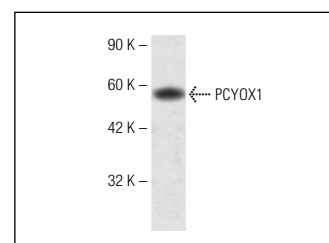
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



PCYOX1 (E-21): sc-133896. Western blot analysis of PCYOX1 expression in non-transfected 293T: sc-117752 (A), human PCYOX1 transfected 293T: sc-117752 (B) and IMR-32 (C) whole cell lysates.



PCYOX1 (E-21): sc-133896. Western blot analysis of PCYOX1 expression in Jurkat whole cell lysate.

RESEARCH USE

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