

PET112L (C-20): sc-82016

BACKGROUND

PET112L is the human homolog of the *S. cerevisiae* COX assembly protein PET112, a protein that is believed to play an important role in the translation of mitochondrial genes. PET112L, also known as HSPC199 or Glu-ADT subunit B (glutamyl-tRNA(Gln) amidotransferase subunit B), is a 557 amino acid protein belonging to the gatB/gatE family of proteins (GatB subfamily) and is believed to play a role in energy metabolism. Localizing to mitochondria, PET112L is expressed in tissues such as heart and muscle, which exhibit high rates of oxidative phosphorylation. The gene encoding PET112L is overexpressed in recurrent ependymoma.

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CHROMOSOMAL LOCATION

Genetic locus: PET112L (human) mapping to 4q31.3; Pet112l (mouse) mapping to 3 F1.

SOURCE

PET112L (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PET112L 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-82016 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82016 X, 200 µg/0.1 ml.

APPLICATIONS

PET112L (C-20) is recommended for detection of PET112L 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).

PET112L (C-20) is also recommended for detection of PET112L in additional species, including equine.

Suitable for use as control antibody for PET112L siRNA (h): sc-76108, PET112L siRNA (m): sc-76109, PET112L shRNA Plasmid (h): sc-76108-SH, PET112L shRNA Plasmid (m): sc-76109-SH, PET112L shRNA (h) Lentiviral Particles: sc-76108-V and PET112L shRNA (m) Lentiviral Particles: sc-76109-V.

PET112L (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PET112L: 58 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.