

PGCP (K-18): sc-98073

BACKGROUND

PGCP (plasma glutamate carboxypeptidase) is a 472 amino acid secreted protein that is primarily detected in blood plasma. PGCP is a carboxypeptidase that potentially is involved in the hydrolysis of circulating peptides. Due to its upregulation in hepatocellular carcinoma (HCC), it is suspected that PGCP may be a potential serological marker for HCC. PGCP is a member of the Peptidase M28 family of proteins, which also includes PSM (prostate-specific membrane antigen), metallopeptidases and aminopeptidases. The gene encoding PGCP maps to chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and are typically associated with a poor prognosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PGCP (human) mapping to 8q22.1; Pgcp (mouse) mapping to 15 B3.1.

SOURCE

PGCP (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PGCP 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.

Blocking peptide available for competition studies, sc-98073 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PGCP (K-18) is recommended for detection of PGCP 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).

PGCP (K-18) is also recommended for detection of PGCP in additional species, including bovine.

Suitable for use as control antibody for PGCP siRNA (h): sc-77755, PGCP siRNA (m): sc-152187, PGCP shRNA Plasmid (h): sc-77755-SH, PGCP shRNA Plasmid (m): sc-152187-SH, PGCP shRNA (h) Lentiviral Particles: sc-77755-V and PGCP shRNA (m) Lentiviral Particles: sc-152187-V.

Molecular Weight of PGCP: 62/56 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.