

CCK-4 (N-18): sc-46308

BACKGROUND

Cholecystokinin (CCK) is a brain/gut peptide and, in the gut, it induces the release of pancreatic enzymes and the contraction of the gallbladder. The CCK precursor is cleaved to produce active peptides, including CCK58. CCK-4 is Type I membrane protein belonging to the Tyr family of protein kinases, Insulin receptor subfamily. CCK-4 lack the typical tyrosine kinase catalytic activity and may be involved in cell adhesion. CCK-4 is a potential tumor progression marker and putatively involved in colon carcinoma pathophysiology. It is mainly expressed in pancreas, liver, lung, placenta, kidney and melanocytes. It is not expressed in colon but may be detected in erythroleukemia cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTK7 (human) mapping to 6p21.1; Ptk7 (mouse) mapping to 17 C.

SOURCE

CCK-4 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CCK-4 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-46308 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCK-4 (N-18) is recommended for detection of mature CCK-4 and CCK-4 precursor 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), 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).

CCK-4 (N-18) is also recommended for detection of mature CCK-4 and CCK-4 precursor in additional species, including equine and canine.

Suitable for use as control antibody for CCK-4 siRNA (h): sc-105188, CCK-4 siRNA (m): sc-142165, CCK-4 shRNA Plasmid (h): sc-105188-SH, CCK-4 shRNA Plasmid (m): sc-142165-SH, CCK-4 shRNA (h) Lentiviral Particles: sc-105188-V and CCK-4 shRNA (m) Lentiviral Particles: sc-142165-V.

Molecular Weight of CCK-4: 118 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

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.


 MONOS
 Satisfation
 Guaranteed

Try **CCK-4 (WW02): sc-100304**, our highly recommended monoclonal alternative to CCK-4 (N-18).