

CCK (H-100): sc-20937

BACKGROUND

CCK (cholecystokinin) is a 115 amino acid secreted protein belonging to the gastrin/cholecystokinin family. CCK has been shown to stimulate the growth of pancreatic cancer. As a peptide hormone, CCK induces gallbladder contraction and the release of pancreatic enzymes in the gut. Binding of CCK to CCK-A receptors stimulates amylase release from the pancreas, while binding to CCK-B receptors stimulates gastric acid secretion. The function of CCK in the brain is not clear. The CCK precursor is cleaved by proteases to produce a number of active cholecystokinins including CCK58, CCK58 desnonopeptide, CCK39, CCK33, CCK25, CCK18, CCK12, CCK8, CCK7 and CCK5. The gene encoding CCK maps to human chromosome 3p22.1 and mouse chromosome 9 F4.

REFERENCES

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4. Comings, D.E., et al. 2001. Cholecystokinin (CCK) gene as a possible risk factor for smoking: a replication in two independent samples. *Mol. Genet. Metab.* 73: 349-353.
5. Mascagni, F. and McDonald, A.J. 2003. Immunohistochemical characterization of cholecystokinin containing neurons in the rat basolateral amygdala. *Brain Res.* 976: 171-184.
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7. Jang, J.Y., et al. 2005. Presence of CCK-A, B receptors and effect of gastrin and cholecystokinin on growth of pancreaticobiliary cancer cell lines. *World J. Gastroenterol.* 11: 803-809.
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CHROMOSOMAL LOCATION

Genetic locus: CCK (human) mapping to 3p22.1; Cck (mouse) mapping to 9 F4.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

CCK (H-100) is a rabbit polyclonal antibody raised against amino acids 1-100 mapping at the N-terminus of CCK 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.

APPLICATIONS

CCK (H-100) is recommended for detection of CCK precursor and all active peptides of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

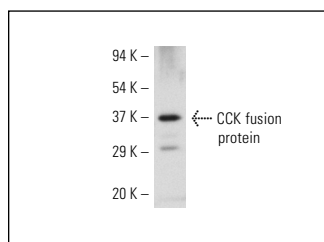
CCK (H-100) is also recommended for detection of CCK precursor and all active peptides in additional species, including canine.

Suitable for use as control antibody for CCK siRNA (h): sc-39496, CCK siRNA (m): sc-39497, CCK shRNA Plasmid (h): sc-39496-SH, CCK shRNA Plasmid (m): sc-39497-SH, CCK shRNA (h) Lentiviral Particles: sc-39496-V and CCK shRNA (m) Lentiviral Particles: sc-39497-V.

Molecular Weight of CCK: 4-12 kDa.

Positive Controls: mouse brain extract: sc-2253 or mouse hypothalamus tissue extract.

DATA



CCK (H-100): sc-20937. Western blot analysis of human recombinant CCK fusion protein.

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.