

# CCK-BR (H-85): sc-33221

## BACKGROUND

Gastrin is responsible for the stimulation of various digestive functions. In response to gastrin, the stomach mucosa produces and secretes hydrochloric acid, and the pancreas secretes digestive enzymes. Gastrin also stimulates smooth muscle contraction and increases blood circulation and water secretion in the stomach and intestine. In the brain, cholecystokinin (CCK) is a neurotransmitter that is involved in satiety, stress and anxiety. CCK is expressed in the gastrointestinal (GI) system as well as the central nervous system (CNS), which provides further evidence that CCK modulates food consumption. Both CCK and gastrin mediate their effects through two G protein-coupled receptors, CCK-AR and CCK-BR. CCK preferentially binds CCK-AR with high affinity, whereas CCK-BR binds to gastrin and CCK with nearly equal affinities. The cholecystokinin receptors and their ligands are potential therapeutic targets for GI or CNS diseases.

## CHROMOSOMAL LOCATION

Genetic locus: CCKBR (human) mapping to 11p15.4; Cckbr (mouse) mapping to 7 E3.

## SOURCE

CCK-BR (H-85) is a rabbit polyclonal antibody raised against amino acids 1-85 mapping at the N-terminus of CCK-BR 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.

## STORAGE

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

## APPLICATIONS

CCK-BR (H-85) is recommended for detection of CCK-BR of mouse, rat and 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).

CCK-BR (H-85) is also recommended for detection of CCK-BR in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CCK-BR siRNA (h): sc-43671, CCK-BR siRNA (m): sc-44569, CCK-BR shRNA Plasmid (h): sc-43671-SH, CCK-BR shRNA Plasmid (m): sc-44569-SH, CCK-BR shRNA (h) Lentiviral Particles: sc-43671-V and CCK-BR shRNA (m) Lentiviral Particles: sc-44569-V.

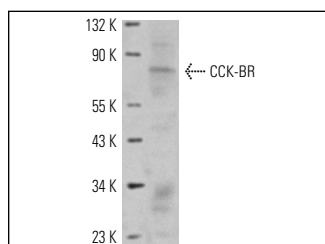
Molecular Weight of CCK-BR: 80 kDa.

Positive Controls: mouse brain extract: sc-2253, SK-N-MC cell lysate: sc-2237 or IMR-32 cell lysate: sc-2409.

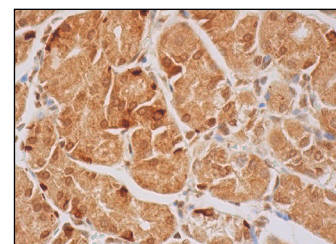
## RECOMMENDED SECONDARY REAGENTS

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



CCK-BR (H-85): sc-33221. Western blot analysis of CCK-BR expression in mouse brain tissue extract.



CCK-BR (H-85): sc-33221. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lower stomach tissue showing cytoplasmic and nuclear staining of glandular cells.

## SELECT PRODUCT CITATIONS

1. Fukamachi, S., et al. 2011. Topical cholecystokinin depresses itch-associated scratching behavior in mice. *J. Invest. Dermatol.* 131: 956-961.
2. Song, L.J., et al. 2012. Gastrin inhibits a novel, pathological colon cancer signaling pathway involving EGR1, AE2, and P-ERK. *J. Mol. Med.* 90: 707-718.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **CCK-BR (E-3): sc-166690** or **CCK-BR (4A5): sc-53522**, our highly recommended monoclonal alternatives to CCK-BR (H-85).