10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CCK-BR Polyclonal Antibody
Catalog # AP68891

Specification

CCK-BR Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P32239
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**

CCK-BR Polyclonal Antibody - Additional Information

Gene ID 887

Other Names
CCKBR; CCKRB; Gastrin/cholecystokinin type B receptor; CCK-B receptor; CCK-BR; Cholecystokinin-2 receptor; CCK2-R

Dilution
WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

CCK-BR Polyclonal Antibody - Protein Information

Name CCKBR (HGNC:1571)

Synonyms CCKRB

Function
Receptor for the peptide hormones gastrin and cholecystokinin (CCK). Expressed throughout the central nervous system, where it modulates processes such as anxiety, analgesia, arousal and neuroleptic activity. Couples to both GNAI1 and GNAQ signaling pathways, but not to GNAS (PubMed:34556863). Upon gastrin activation, reduces glucose absorption in intestinal epithelial cells by downregulating SGLT1 and GLUT2 expression through suppression of the PI3K/Akt/eIF4B pathway (By similarity). In the kidney, decreases SGLT2 expression under high- glucose conditions via ERK/NF-kappa-B signaling (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein.

Tissue Location

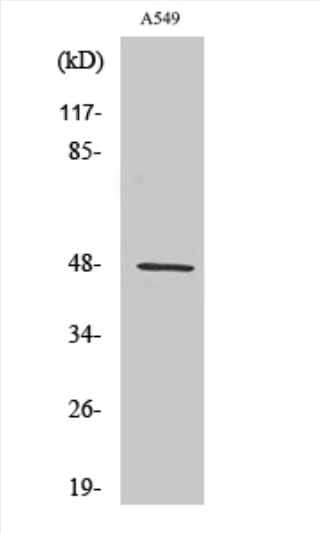
Isoform 1 is expressed in brain, pancreas, stomach, the colon cancer cell line LoVo and the T-lymphoblastoma Jurkat, but not in heart, placenta, liver, lung, skeletal muscle, kidney or the stomach cancer cell line AGS. Expressed at high levels in the small cell lung cancer cell line NCI-H510, at lower levels in NCI-H345, NCI- H69 and GLC-28 cell lines, not expressed in GLC-19 cell line. Within the stomach, expressed at high levels in the mucosa of the gastric fundus and at low levels in the antrum and duodenum. Isoform 2 is present in pancreatic cancer cells and colorectal cancer cells, but not in normal pancreas or colonic mucosa. Isoform 3 is expressed in brain, pancreas, stomach, the stomach cancer cell line AGS and the colon cancer cell line LoVo.

CCK-BR Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

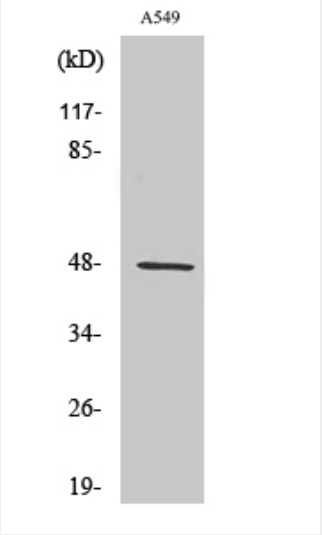
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCK-BR Polyclonal Antibody - Images



Western Blot analysis of various cells using CCK-BR Polyclonal Antibody

10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western Blot analysis of various cells using CCK-BR Polyclonal Antibody

CCK-BR Polyclonal Antibody - Background

Receptor for gastrin and cholecystokinin. The CCK-B receptors occur throughout the central nervous system where they modulate anxiety, analgesia, arousal, and neuroleptic activity. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.