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

Goat Anti-CCKBR Antibody

Peptide-affinity purified goat antibody
Catalog # AF1209a

Specification

Goat Anti-CCKBR Antibody - Product Information

Application	**WB, IHC, IF, ICC, E**
Primary Accession	P32239
Other Accession	NP_795344, 887, 12426 (mouse), 25706 (rat)
Reactivity	**Human, Rat**
Predicted	**Mouse**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**48419**

Goat Anti-CCKBR Antibody - Additional Information

Gene ID 887

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

Dilution
WB~~1:1000
IHC~~1:100~500
IF~~1:50~200
ICC~~N/A
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-CCKBR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CCKBR 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.

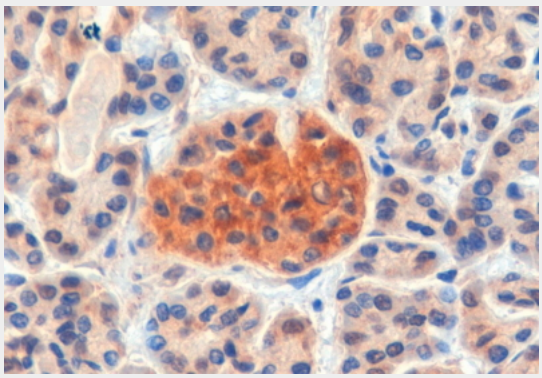
Tissue Location
Isoform 1 is expressed in brain, pancreas, stomach, the colon cancer cell line LoVo and the T-lymphoblastoma Jurkat, but not in heart, placenta, liver, lung, skeletal muscle, kidney or the stomach cancer cell line AGS. Expressed at high levels in the small cell lung cancer cell line NCI-H510, 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.

Goat Anti-CCKBR 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

Goat Anti-CCKBR Antibody - Images



AF1209a (4 µg/ml) staining of paraffin embedded Human Pancreas. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

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

Goat Anti-CCKBR Antibody - Background

This gene encodes a G-protein coupled receptor for gastrin and cholecystokinin (CCK), regulatory peptides of the brain and gastrointestinal tract. This protein is a type B gastrin receptor, which has a high affinity for both sulfated and nonsulfated CCK analogs and is found principally in the central nervous system and the gastrointestinal tract. A misspliced transcript variant including an intron has been observed in cells from colorectal and pancreatic tumors.

Goat Anti-CCKBR Antibody - References

Association study of polymorphisms in cholecystokinin gene and its receptors with antipsychotic induced weight gain in schizophrenia patients. Tiwari AK, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2010 Aug 20. PMID 20732371.
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua□o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.
Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.