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CCKBR Rabbit pAb

Catalog # AP98480

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P32239
Other Accession	P32239
Reactivity	Rat, Mouse
Predicted	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48419
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Gastrin receptor
Epitope Specificity	301-400/447
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Receptor for gastrin and cholecystokinin. The CKK-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. Isoform 2 is constitutively activated and may regulate cancer cell proliferation via a gastrin-independent mechanism.

Additional Information

Gene ID	887
Other Names	CCK-2R; CCK-B; CCK2R; GASR; CCK-BR; CCK2-R; CCKR-2; Cholrec; GASR_BOVIN; CCKBR; CCK-B receptor; Cholecystokinin-2 receptor (CCK2-R); GASR_HUMAN; CCKRB; GASR_MOUSE; GASR_RAT; cholecystokinin B receptor; Gastrin/cholecystokinin type B receptor; cholecystokinin type 2 receptor; gastrin receptor
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 down-regulating 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.