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Anti-CCKBR Antibody

Catalog # AP51051

Product Information

Application	WB, IF/IC
Primary Accession	P32239
Reactivity	Human, Mouse, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48419

Additional Information

Gene ID	887
Other Names	CCKRB; Gastrin/cholecystokinin type B receptor; CCK-B receptor; CCK-BR; Cholecystokinin-2 receptor; CCK2-R
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CCKBR. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

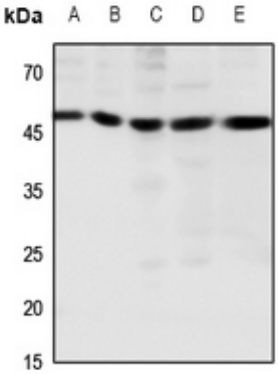
Name	CCKBR (HGNC:1571)
Synonyms	CCKRB
Function	Receptor for the peptide hormones gastrin and cholecystokinin (CCK). Expressed throughout the central nervous system, where it modulates processes such as anxiety, analgesia, arousal and neuroleptic activity. Couples to both GNAI1 and GNAQ signaling pathways, 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.

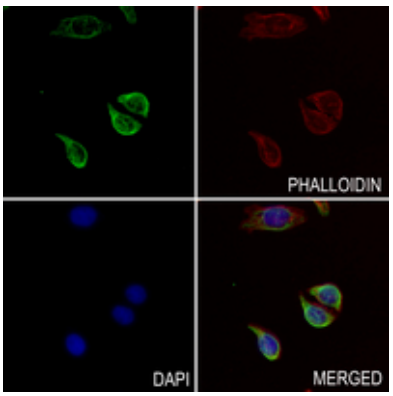
References

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Images



Western blot analysis of CCKBR expression in HEK293T (A), Hela (B), H460 (C), mouse lung (D), mouse brain (E) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 48 kD)



Immunofluorescent analysis of CCKBR staining in KYSE30 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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