

Rabbit CCKBR Polyclonal Antibody | anti-CCKBR antibody

Anti-CCKBR Picoband antibody

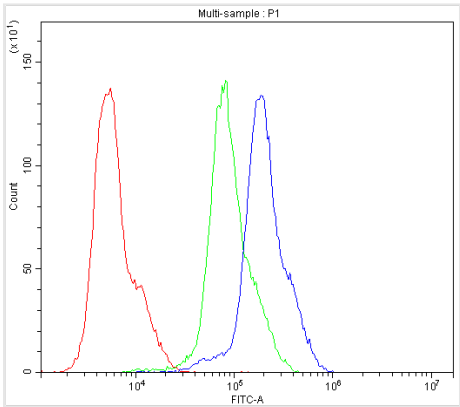
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124659	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot

PRODUCT SYNONYMS

CCKBR; Polyclonal Antibody; Anti-CCKBR Picoband antibody; Gastrin/cholecystokinin type B receptor; CCK-B receptor; CCK-BR; Cholecystokinin-2 receptor; CCK2-R; CCKRB; anti-CCKBR antibody

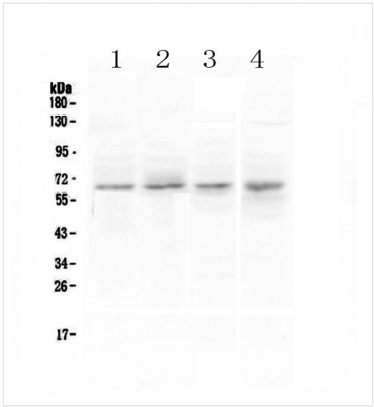
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	381
Applicable Applications for anti-CCKBR antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human CCKBR (PVYTVVQPVGPRVLQCVHRWPSARVRQTWS).
Subcellular Localization	Cell membrane; Multi-pass membrane protein.
Tissue Specificity	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.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



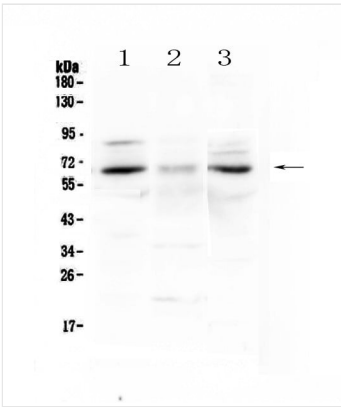
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of LOVO cells using anti-CCKBR antibody (AAA124659).Overlay histogram showing LOVO cells stained with AAA124659 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CCKBR Antibody (AAA124659,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of CCKBR using anti-CCKBR antibody (AAA124659).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human PANC-1 whole cell lysates,Lane 2: human U-87MG whole cell lysates,Lane 3: human COLO-320 whole cell lysates,Lane 4: human SGC-7901 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CCKBR antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CCKBR at approximately 64KD. The expected band size for CCKBR is at 48KD.



WB (Western Blot)

Figure 2. Western blot analysis of CCKBR using anti-CCKBR antibody (AAA124659).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: rat stomach tissue lysates,Lane 3: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CCKBR antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CCKBR at approximately 64KD. The expected band size for CCKBR is at 48KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CCKBR antibody	Description: The cholecystokinin B receptor, also known as CCKBR or CCK2, is a protein that in humans is encoded by the CCKBR gene. 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. Alternative splicing results in multiple transcript variants. A misspliced transcript variant including an intron has been observed in cells from colorectal and pancreatic tumors. Protein Function: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	966751426
NCBI GeneID	887
NCBI Accession #	NP_001304958.1
NCBI GenBank Nucleotide #	NM_001318029.1
UniProt Accession #	P32239; O75824; Q16144; Q92492; Q96LC6; Q9NYK7; Q9UBV1; A8K7P9
Molecular Weight	41,504 Da
NCBI Official Full Name	gastrin/cholecystokinin type B receptor isoform 2
NCBI Official Synonym Full Names	cholecystokinin B receptor
NCBI Official Symbol	CCKBR
NCBI Official Synonym Symbols	GASR; CCK-B; CCK2R
NCBI Protein Information	gastrin/cholecystokinin type B receptor
UniProt Protein Name	Gastrin/cholecystokinin type B receptor
UniProt Gene Name	CCKBR
UniProt Synonym Gene Names	CCKRB; CCK-B receptor; CCK-BR; CCK2-R

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.