

Recombinant Human CCKBR protein

Cat. No. CCKBR-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCKBR was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
Description	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 CCKanalogs 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.
Form	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	48.4 kDa
AA Sequence	MELLKLNRSVQGTGPGPGASLCRPGAPLLNSSSVGNLSCEPPRIRGAGTRELELAIR ITLYAVIFLMSVGGNMLI IVVLGLSRRLRTVTNAFLLSLAVSDLLLAVACMPFTLLPNL MGTFIFGTVICKAVSYLMGVSVSVSTLSLVAIAL ERYSAICRPLQARVWQTRSHAAR VIVATWLLSGLLMVPYPVYTVVQPVGPRVLQCVHRWPSARVRQTWSVLLLLL LFFIP GVVMAVAYGLISRELYLGLRFDGSDSDSDSQSRVRNQGGPLGAVHQNGRCRPETGA VGEDSDGCVVQLPRS RPALELTALTAPGPGSGSRPTQAKLLAKKRVRMMLLVIVVL FFLCWLPVYSANTWRAFDGPGAHRALSGAPISFI HLLSYASACVNPLVYCFMHRRF RQACLETCARCCPRPPRARPRALPDEDPTPSIASLSRLSYTTISTLGPG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Antibody Production;Functional Study: Recommended usage only, not validated yet.Compound Screening: Recommended usage only, not validated yet.
Usage	Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CCKBR cholecystokinin B receptor [Homo sapiens]
Official Symbol	CCKBR
Synonyms	CCKBR; cholecystokinin B receptor; gastrin/cholecystokinin type B receptor; CCK-BR; CCK2-R; CCK2 receptor; CCK-B receptor; gastrin receptor; cholecystokinin-2 receptor; GASR; CCK-B; CCK2R;
Gene ID	887
mRNA Refseq	NM_176875
Protein Refseq	NP_795344
MIM	118445
UniProt ID	P32239
Chromosome Location	11p15.4

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Pathway

Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem;

Function

1-phosphatidylinositol-3-kinase regulator activity; G-protein coupled receptor activity; cholecystokinin receptor activity; gastrin receptor activity; phosphatidylinositol phospholipase C activity; receptor activity; signal transducer activity; type B gastrin/cholecystokinin receptor binding;

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