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Anti-SCTR Picoband Antibody
Catalog # ABO11714

Specification

Anti-SCTR Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P47872
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Secretin receptor(SCTR) detection. Tested with WB in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SCTR Picoband Antibody - Additional Information

Gene ID 6344

Other Names
Secretin receptor, SCT-R, SCTR

Calculated MW
50207 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Cell membrane; Multi-pass membrane protein.

Protein Name
Secretin receptor

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human SCTR (398-440aa EVQKKWQQWHLREFPLHPVASFSNSTKASHLEQSQGTCRTSII).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-SCTR Picoband Antibody - Protein Information

Name SCTR (HGNC:10608)

Function
G protein-coupled receptor activated by secretin (SCT), which is involved in different processes such as regulation of the pH of the duodenal content, food intake and water homeostasis (PubMed:25332973, PubMed:32811827, PubMed:33008599, PubMed:7612008). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and activates cAMP-dependent pathway (PubMed:32811827, PubMed:33008599). Upon binding to secretin, regulates the pH of the duodenum by (1) inhibiting the secretion of gastric acid from the parietal cells of the stomach and (2) stimulating the production of bicarbonate (NaHCO(3)) from the ductal cells of the pancreas (By similarity). In addition to regulating the pH of the duodenal content, plays a central role in diet induced thermogenesis: acts as a non-sympathetic brown fat (BAT) activator mediating prandial thermogenesis, which consequentially induces satiation. Mechanistically, secretin released by the gut after a meal binds to secretin receptor (SCTR) in brown adipocytes, activating brown fat thermogenesis by stimulating lipolysis, which is sensed in the brain and promotes satiation. Also able to stimulate lipolysis in white adipocytes. Also plays an important role in cellular osmoregulation by regulating renal water reabsorption. Also plays a role in the central nervous system: required for synaptic plasticity (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q5FWI2}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q5FWI2}; Multi-pass membrane protein

Anti-SCTR Picoband 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

Anti-SCTR Picoband Antibody - Images

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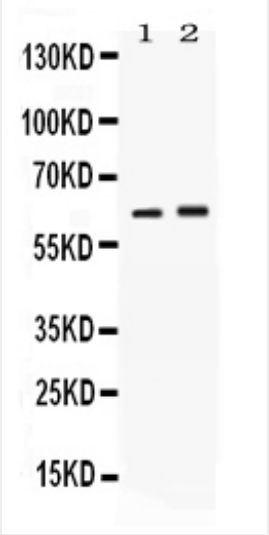

Western blot analysis of SCTR expression in rat kidney extract (lane 1) and SKOV3 whole cell lysates (lane 2). SCTR at 59KD was detected using rabbit anti- SCTR Antigen Affinity purified polyclonal antibody (Catalog # ABO11714) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-SCTR Picoband Antibody - Background

Human secretin receptor (gene name SCTR) is a G protein-coupled receptor and belongs to the glucagon-VIP-secretin receptor family. It binds secretin which is the most potent regulator of pancreatic bicarbonate, electrolyte and volume secretion. Secretin and its receptor are suggested to be involved in pancreatic cancer and autism. The SCTR gene is mapped to chromosome 2q14.1 by fluorescence in situ hybridization.