BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GCGR Antibody Picoband®

Catalog Number: A03342-2

About GCGR

The protein encoded by this gene is the glucagon receptor, a member of the secretin receptor family of class B G-protein-coupled receptors (GPCRs). This receptor plays a critical role in maintaining blood glucose homeostasis by mediating the effects of glucagon, including stimulation of hepatic glycogenolysis and gluconeogenesis. This gene is expressed primarily in the liver and kidney but also in the heart, adrenal glands, pancreas, spleen, thymus, cerebral cortex, adipose tissue, and gastrointestinal tract. Mutations in this gene can impair glucagon signaling, leading to dysregulation of glucose metabolism and contributing to the development of non-insulin-dependent diabetes mellitus (type 2 diabetes). Such defects may result in altered glucose production, insufficient counter-regulation during fasting, and increased susceptibility to hyperglycemia. Inactivating mutations in this gene cause resistance to glucagon which is associated with Mahvash disease.

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Overview

Product Name	Anti-GCGR Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-GCGR Antibody Picoband® catalog # A03342-2. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P47871

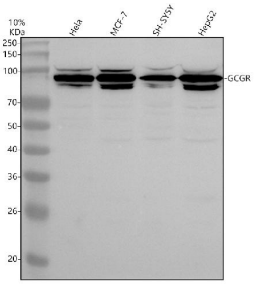
Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GCGR.(RDASQCQMDGEEIEVQKEV).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human

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Anti-GCGR Antibody Picoband® (A03342-2) Images



Western blot analysis of GCGR using anti-GCGR antibody (A03342-2). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GCGR antigen affinity purified polyclonal antibody (A03342-2) at 0.5 ug/mL overnight at 4°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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for GCGR at approximately 90 kDa. The expected band size for GCGR is at 54 kDa.

Anti-GCGR Antibody

For Research Use Only. Not for use in diagnostic procedures.