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Datasheet for ABIN453051

anti-Glucagon antibody (N-Term)

3 Images

Overview

Quantity:	0.4 mL
Target:	Glucagon (GCG)
Binding Specificity:	AA 32-62, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 32~62 amino acids from the N-terminal region of Human GCG Gene name: GCG
Specificity:	This antibody detects GCG at N-term.
Cross-Reactivity (Details):	Species reactivity (tested): Human, Mouse
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

Target Details

Target:	Glucagon (GCG)
Alternative Name:	Glucagon (GCG Products)
Background:	GCG is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by

Target Details

stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. Synonyms: GCG

Molecular Weight: 20909 Da

Gene ID: 2641

NCBI Accession: [NP_002045](#)

UniProt: [P01275](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Peptide Hormone Metabolism](#), [cAMP Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#), [Feeding Behaviour](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: Western blot: 1: 50 - 1: 100. ELISA: 1: 1,000.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS, 0.09 % (W/V) Sodium Azide

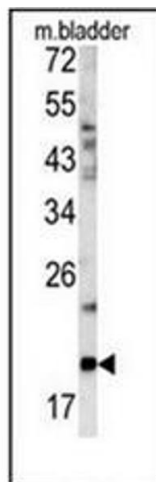
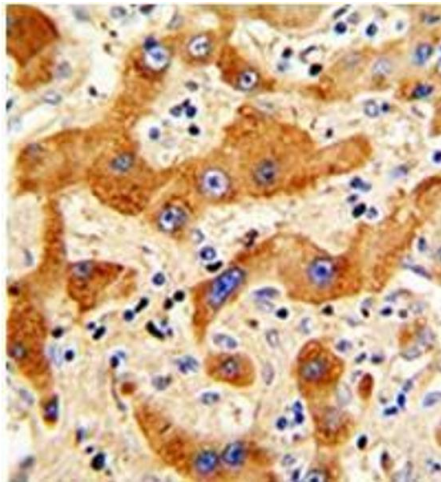
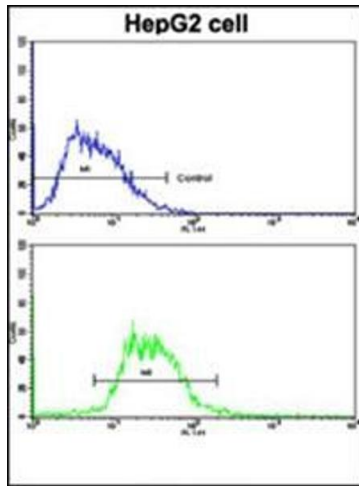
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Flow Cytometry

Image 1. Flow Cytometric analysis of HepG2 cells using Glucagon Antibody (N-term) Cat.-No AP17420PU-N (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with Glucagon Antibody (N-term), Cat.-No AP17420PU-N which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Western Blotting

Image 3. Western blot analysis of Glucagon antibody (N-term) in Mouse bladder tissue lysates (35ug/lane). GCG (arrow) was detected using the purified Pab.