

Code No. 10505

**Anti-
Glucagon (52A1A) Rat IgG MoAb**Volume : 50 µg

Introduction : Glucagon is a peptide hormone with a molecular weight of 3,485, consisting of 29 amino acid residues, secreted by pancreatic alpha cells. It acts on the liver to stimulate the production and release of glucose through glycogenolysis and glycogenesis, thereby raising blood glucose. Together with insulin (Insulin), it is involved in the regulation of glucose homeostasis.

Proglucagon, the precursor of glucagon, undergoes different processing depending on the cell in which it is produced, giving rise to a variety of related peptides. This antibody recognises the C-terminus of glucagon and specifically detects glucagon produced by alpha cells.

Antigen : Synthetic peptide for proglucagon (76-81) (QWLMNT)

Source : Mouse-Rat hybridoma
(X63-Ag8.653xWister Rat Lymph cells)

Clone : 52A1A **Subclass** : IgG_{2a}

Purification : Affinity purified with Protein G

Form : Lyophilized product from 1% BSA in PBS containing 0.05% NaN₃

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 50 µg/mL

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be stained in paraffin-embedded and frozen sections. The optimal dilution is 0.1 µg/mL, however, the dilution rate should be optimized by each laboratories.

Specificity : Glucagon C-terminal specific

Reactivity : Mouse, Human

Reference : Honzawa N, et al. Protein Kinase C (Pkc)-δ Mediates Arginine-Induced Glucagon Secretion in Pancreatic α-Cells. Int J Mol Sci. 2022 Apr; 23(7):4003.

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