

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Glucagon in direct ELISAs.                                        |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2A</sub> Clone # 970313R                              |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from cell culture supernatant                           |
| <b>Immunogen</b>                                                                                                                                                                                        | Human GLP-1 synthetic peptide<br>Accession # P01275                             |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                    |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                 |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Glucagon is a preprotein which is cleaved into four distinct peptides, including the hormone GLP-1 (aa 98-128). GLP-1 is a secreted hormone with multiple effects upon the intestine (gastric motility), pancreas (glucose dependent insulin release) and hypothalamic pituitary axis (modulates LH, THS, CRH, oxytocin and vasopressin secretion). It also affects plasma glucagon levels. GLP-1 is expressed in enteroendocrine L cells and neurons of the caudal brainstem which project to the forbrain, the amygdala and the hypothalamus. Recent studies show pancreatic intra-islet GLP-1 expression, which is regulated by cytokines, hyperglycemia and cell injury.

## PRODUCT SPECIFIC NOTICES

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