Glucagon Antibody (03)

Lot Number: QH2069572

Product Data Sheet

Tested Species Reactivity
Mammalia (Mi)

Tested Applications	Dilution *
Western Blot (WB)	Assay Dependent
ELISA (ELISA)	Assay Dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
Catalog Number:	ABS 046-03-02
Size:	200 µL
Class:	Monoclonal
Type:	Antibody
Clone:	03
Host / Isotype:	Mouse / IgG1/k
Immunogen:	Synthetic GLP-1(9-37) adsorbed onto aluminum hydroxide gel.

Form Information	
Form:	Liquid
Concentration:	0.85-1.15mg/ml
Purification:	Protein A
Storage Buffer:	0.1M PBS, pH 7.4, with 0.5M NaCl
Preservative:	15mM sodium azide
Storage Conditions:	4° C, store in dark

Product Specific Information

Specificity: ABS 046-03-02 binds GLP-1 (1-37), GLP-1 (7-37) and GLP-1 (9-37). This antibody shows 0-16% cross-Specificity with C-terminally amidated GLP-1 in various circumstances. Reactivity: ABS 046-03-02 binds free GLP-1 (1-37), GLP-1 (7-37) and GLP-1 (9-37) in solution. Two different ELISA sandwich setups can be used for measuring non-amidated GLP-1 forms: The first uses ABS 046-03 as a capture antibody with biotinylated detection antibody ABS 033-10-02. This shows ~5% cross-reactivity with C-terminally amidated GLP-1. The second combination uses HYB 147-12 as a capture antibody with biotinylated detection antibody ABS 046-03-02, resulting in ~16% cross-reactivity with C-terminally amidated GLP-1. Results show detection limits of 44 pmol/L which is 10-20 times higher than the basal concentration of GLP-1, so the assays have to be optimized.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

General Information

GLP-1(7-36) amide is the principal active form of GLP-1, the other being GLP-1(7-37). GLP-1 is a peptide hormone of the glucagon family, produced by the L cells of the intestinal mucosa from the same prohormone as glucagon. The active forms are potent stimulators of glucose-dependent insulin secretion. The sequence of GLP-1 is fully conserved in all mammalian species examined so far.

Thermo Fisher
3747 N. Meridian Road
PO Box 117
Rockford, IL 61105 USA
(815) 968-0747 OR (800) 874-3723
(815) 968-7316 fax
thermoscientific.com

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