

PRODUCT SPECIFICATION

Anti-GLP-1 (Non-amidated (-Arg-Gly), C-terminal specific)

Mouse monoclonal antibody, biotinylated

Subclass: IgG1/k

PRODUCT NO.

ABS 046-03 B

PRESENTATION

Preparation: Biotinylated

Content: 50 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

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.

IMMUNOGEN

Synthetic GLP-1(9-37) adsorbed onto aluminum hydroxide gel

SPECIFICITY

ABS 046-03 binds GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37).

Cross-reaction with C-terminally amidated GLP-1 is 0-16% in various circumstances.

EPI TOPE SPECIFICITY

C-terminus of GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37)

REACTIVITY

ABS 046-03 binds free GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37) in solution.

Two different ELISA sandwich setups can be made for measuring non-amidated GLP-1 forms: The first uses ABS 046-03 as a capture antibody with ABS 033-10B as a biotinylated detection antibody cross-reacting about 5% with C-terminally amidated GLP-1. The second combination uses ABS 046-03B as a biotinylated detection antibody and HYB 147-12 as a capture antibody cross-reacting about 16% with C-terminally amidated GLP-1. Results show detection limits of 44pmol/L which is 10-20 times higher than the basal concentration of GLP-1, so the assays have to be optimized.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

SP2mIL6

IMMUNIZATION

Female NMRI x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.