

**Anti-GLP-1 (Non-amidated (-Arg-Gly), C-terminal specific)
Mouse monoclonal antibody**

PRODUCT NO.

ABS 046-03

Subclass: IgG1/k

Clone: 03

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 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

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