

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

Subclass: IgG1/k

CAT. NO.

ABS 046-03

Clone:03

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| 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. |
| IMMUNOGEN | Synthetic GLP-1(9-37) |
| TESTED APPLICATIONS | ELISA, WB |
| SPECIES REACTIVITY (POSITIVE) | Human |
| SPECIES REACTIVITY (NEGATIVE) | Not determined |
| EPITOPE SPECIFICITY | C-terminus of GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37) |

PRESENTATION

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| Content: | Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details. |
| Preparation: | Protein-A purified |
| Form: | Liquid |
| 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. |

APPLICATION

ELISA: ABS 046-03 binds free GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37) in solution.
ABS 046-03 binds free GLP-1(1-37), GLP-1(7-37) and GLP-1(9-37) in solution.
ABS 046-03 works well as a capture antibody with ABS 033-10B as a biotinylated detection antibody cross-reacting about 5% with C-terminally amidated GLP-1.
ABS 046-03 can also be used as a capture antibody for detection of GLP-1 derivatives (1).
WB: ABS 046-03 can be used in Western blotting.

TARGET

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.

REFERENCES

1. Sang Y, Zhou T, Li H, Ran Y, Jiang D, Zheng F, Chen Y, Wang C, Zou X (2013) A new long-acting GLP-1 derivative KTP ameliorates hyperglycemia and dyslipidemia and improves pancreas and fatty liver in db/db mice. Chinese Science Bulletin 58:2447-2453

CONDITIONS

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