

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

Mouse monoclonal antibody

Subclass: IgG1/k

Clone:03

CAT. NO. **ABS 046-03**

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

Content: Available in 400 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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