

**Anti-GLP-1(7-37) and GLP-1(7-36)amide (N-terminal specific)
Mouse monoclonal antibody**

PRODUCT NO.

ABS 033-10

Subclass: IgG2a/k

Clone: 10

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

Glucagon-like peptide 1(7-36)amide (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(7-17) adsorbed onto aluminum hydroxide gel

SPECIFICITY

ABS 033-10 binds the free N-terminus of GLP-1(7-37) and GLP-1(7-36)amide and shows <0.2% cross-reactivity with GLP-1(9-36)amide, glucagon and human GIP. Cross-reacts 0.25% with GLP-1(1-37), approximately 6% with human GLP-2 and approximately 50% with exendin-4.

EPI TOPE SPECIFICITY

Free N-terminus of GLP-1(7-37) and GLP-1(7-36)amide.

REACTIVITY

ABS 033-10 binds free GLP-1(7-37) and free GLP-1(7-36)amide in solution.

ABS 033-10 reacts in ELISA with GLP-1(7-37) coated directly onto the microtiter well.

ABS 033-10 binds free exendin-4 in solution and can function as a capture antibody for exendin-4.

ABS 033-10B can be used as a detection antibody in combination with ABS 046-03 as a capture antibody in order to measure non-amidated GLP-1 forms and cross-reacting about 5% 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 NMRIxBALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

CONDITIONS

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