

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

Subclass: IgG2a/k

 PRODUCT NO. **ABS 033-10**

 PRESENTATION
 Preparation: Protein-A purified
 Content: Available in 200 µL and 1 mL volumes, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
 Storage: In the dark at 4-8°C

 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
 KLH-conjugated synthetic [Cys18]-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.

 CULTURE MEDIUM
 RPMI 1640 with 10% fetal calf serum

 FUSION PARTNER
 SP2mIL6

 IMMUNIZATION
 Female NMRIxBALB/c mice immunized by intraperitoneal injection

Method	Usability	Dilution guideline	References
ELISA	Yes	1/20,000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for GLP-1 (7-37) coated at 1 µg/ml. Users should determine the optimal dilutions for their own purposes.

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.