

PRODUCT SPECIFICATION

Anti-Glucagon-like peptide-1 (GLP-1(7-36)amide, C-terminal specific)

Mouse monoclonal antibody, biotinylated

Subclass: IgG1/k

PRODUCT NO.

HYB 147-06 B

PRESENTATION

Preparation: Biotinylated

Content: 50 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.14 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(7-36)amide coupled to carrier and adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 147-06 is specific for the amidated C-terminus of the peptide and does not react with GLP-1(7-37) (1).

EPI TOPE SPECIFICITY

C-terminal epitope of GLP-1(7-36)amide

REACTIVITY

HYB 147-06 reacts with the amidated C-terminus of GLP-1(7-36)amide, GLP-1(9-36)amide and GLP-1(1-36)amide. HYB 147-06 can be used as capture antibody in sandwich ELISA (1) using HYB 147-12B or ABS 033-10B as detection antibody. HYB 147-06 has been used for the immunoblockade of endogenous GLP-1 in rats (2).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injections

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

1. Ghiglione M, Uttenthal LO, Koch C (1993) Monoclonal antibodies to glucagon-like peptide-1. Digestion 54:396-397.
2. van Delft J, Uttenthal O, Koch C, Ghiglione M (1999) Immunoblockade of endogenous glucagon-like peptide-1 by monoclonal antibodies in conscious rats: effect on the insulin response to intragastric glucose. Metabolism 48:41-46.

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.