

PRODUCT SPECIFICATION
Anti-Glucagon-like peptide-1 (GLP-1, Mid-molecule specific)
Mouse monoclonal antibody, biotinylated

Subclass: IgG2a/k

PRODUCT NO.

HYB 147-08 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 15mM 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

Reacts with all forms of GLP-1, including precursor and GLP-1(9-37) /GLP-1(9-36amide) metabolite

EPI TOPE SPECIFICITY

Mid-molecular epitope of GLP-1

REACTIVITY

HYB 147-08 binds to GLP-1 when coated directly onto the microtiter well, and binds GLP-1(7-36)amide in solution giving a K_a of 1.2×10^7 in inhibition ELISA. HYB 147-08 does not cross-react with coated glucagon or hGLP-2. In inhibition ELISA no binding of free glucagon in solution is detected, giving an estimated cross-reactivity of <0.2%. Although not tested, HYB 147-08 is likely to detect all known molecular forms of GLP-1 in immunohistochemistry.

In Western blotting a dilution guideline of 1/1000 has proved successful.

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

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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.