

**Anti-Glucagon-like peptide-1 (GLP-1(7-36)amide)
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO. **HYB 147-12**

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
 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.

EPI TOPE SPECIFICITY
 Mid-molecular epitope of GLP-1. Differs from that of HYB 147-06 (C-terminal amide).

REACTIVITY
 HYB 147-12 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 4.0×10^8 in inhibition ELISA. HYB 147-12 cross-reacts <0.4% with coated glucagon. In inhibition ELISA no binding of free glucagon in solution is detected, giving an estimated cross-reactivity of <0.2%. Although not tested, HYB 147-12 is likely to detect all known molecular forms of GLP-1 in immunohistochemistry. Biotinylated HYB 147-12 is the preferred detection antibody for measuring C-terminally amidated forms of GLP-1 in combination with HYB 147-06 as capture antibody.

CULTURE MEDIUM
 RPMI 1640 with 10% fetal calf serum

FUSION PARTNER
 X63-Ag8.653

IMMUNIZATION
 Female BALB/c mice by intraperitoneal injections

Method	Usability	Dilution guideline	References
ELISA	Yes	1/8000	
Immunoblotting	Yes	1/2000	
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.2 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.