ANTIBODYSHOP®

PRODUCT SPECIFICATION

15/09/2014

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

Mouse monoclonal antibody, biotinylated

Subclass: IgG1/k

PRODUCT NO. **HYB 147-06B**

Clone: 8G9

SPECIFICITY	HYB 147-06 is specific for the amidated C-terminus of the peptide and does not react with GLP-1(7-37) (1).
IMMUNOGEN	Synthetic GLP-1(7-36)amide coupled to carrier
TESTED APPLICATIONS	ELISA
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	C-terminal epitope of GLP-1(7-36)amide

PRESENTATION

Content:	50 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Biotinylated
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide
Storage:	4-8ºC without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: HYB 147-06 can be used as capture antibody in sandwich ELISA (1) using HYB 147-12B (active GLP-1) or ABS 033-10B (total GLP-1) as detection antibody (2, 3).
In a sandwich ELISA ABS 044-49 (as capture antibody) forms a pair with HYB 147-06B (as biotinylated detection antibody) in order to measure ”degraded GLP-1” (the GLP-1 metabolite (GLP-1(9-36)amide)).

TARGET

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.

REFERENCES

1. Ghiglione M, Uttenthal LO, Koch C (1993) Monoclonal antibodies to glucagon-like peptide-1. Digestion 54:396-397.
2. Piotrowski K, Becker M, Zugwurst J, Biller-Friedmann I, Spoettl G, Greif M, Leber AW, Becker A, Laubender RP, Lebherz C, Goeke B, Marx N, Parhofer KG, Lehrke M (2013) Circulating concentrations of GLP-1 are associated with coronary atherosclerosis in humans. Cardiovascular Diabetology 12:117.
3. Voortman T, Hendriks HFJ, Witkamp RF, Wortelboer HM (2012) Effects of long- and short-chain fatty acids on the relase of gastrointestinal hormones using an ex vivo porcine intestinal tissue model. J. Agric. Food Chem. 60:9035-9042.