ANTIBODYSHOP®

PRODUCT SPECIFICATION

15/09/2014

Anti-GLP-1 (Mid-molecule specific)

Mouse monoclonal antibody

Subclass: IgG2a/k

CAT. NO. **HYB 147-08**

Clone:11E2

SPECIFICITY	Reacts with all forms of GLP-1, including precursor and GLP-1(9-37) /GLP-1(9-36amide) metabolite. HYB 147-08 cross-reacts with Liraglutide.
IMMUNOGEN	Synthetic GLP-1(7-36)amide coupled to carrier
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Mid-molecular epitope of GLP-1

PRESENTATION

Content:	Available in 200 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8ºC without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: 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 Ka of 1.2x10E7 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%.
WB: In Western blotting a dilution guideline of 1/1000 has proved successful.
IHC: Although not tested, HYB 147-08 is likely to detect all known molecular forms of GLP-1 in immunohistochemistry (1).

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. 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.

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