PRODUCT SPECIFICATION

STATENS SERUM INSTITUT

HYB 147-08 Anti-GLP-1 (Mid-molecule specific)

Mouse monoclonal antibody

OVERVIEW	Article No.	100913 (0.2 mL), 100914 (1.0 mL)
	Product Name	HYB 147-08 Anti GLP-1 (Mid-molecule specific)
	Clone ID	11E2
	Subclass	IgG2a / Kappa
	Specificity	HYB 147-08 reacts with all forms of GLP-1, including the inactive precursor (GLP-1 (1-36)amide), the active forms of GLP-1 (GLP-1(7-36amide), GLP-1(7-37)) and the inactive metabolites GLP-1 (9-36)amide and GLP-1 (9-37).
	Species Reactivity	Human
	Epitope Specificity	A mid-molecular epitope of GLP-1.
	Immunogen	Synthetic GLP-1(7-36)amide coupled to carrier
	Fusion Partner	X63-Ag8.653.
	Culture Medium	Dulbecco's modified Eagle's medium with 10 % fetal calf serum

TESTED APPLICATION	Method	Usability	References
	Enzyme linked immunosorbent assay (ELISA)	Yes	1
	Western Blot (WB)	Yes	

PRODUCT SPECIFIC INFORMATION	In ELISA HYB 147-08 binds to all forms of GLP-1 coated directly in the microtiter well. Biotinylated HYB 147-08 is useful as detection antibody for measuring C-terminally amidated forms of GLP-1 in combination with HYB 147-06 as capture antibody (1). In western blotting HYB 147-08 reacts with all forms of GLP-1.

PROPERTIES	Conjugation:	Unconjugated
	Form	Liquid
	Preparation:	Protein A
	Concentration:	1 mg/mL ± 10%, based on A_{280}. See Certificate of Analysis for details.
	Solvent:	PBS
	Storage information:	Store at ≤ - 18 ºC.

TARGET	Glucagon-like peptide-1 (GLP-1) is one of four peptide products of the GCG gene. GLP-1 is secreted from L cells in the intestinal mucosa. GLP-1 in its active forms (GLP-1 (7-36)amide and GLP-1 (7-37)) stimulates glucose-dependent insulin secretion. The incompletely cleaved GLP-1 (1-36) amide has relatively little bioactivity. Among mammalian species examined so far, full conservation of the GLP-1 protein sequence has been found.

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REFERENCES	1. Voortman T, Hendriks HF, Witkamp RF, Wortelboer HM (2012) Effects of long- and short-chain fatty acids on the release of gastrointestinal hormones using an ex vivo porcine intestinal tissue model. J Agric Food Chem. 2012 Sep 12;60(36):9035-42. doi: 10.1021/jf2045697. Epub 2012 Aug 30. PMID: 22757966

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Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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