PRODUCT SPECIFICATION

STATENS SERUM INSTITUT

HYB 147-06 Anti GLP-1 (GLP-1(7-36)amide, C-terminal specific)

Mouse monoclonal antibody

OVERVIEW	Article No.	100911 (0.2 mL), 100912 (1.0 mL)
	Product Name	HYB 147-06 Anti GLP-1 (GLP-1(7-36)amide, C-terminal specific)
	Clone ID	8G9
	Subclass	IgG1 / Kappa
	Specificity	HYB 147-06 is specific for the amidated C-terminus of GLP-1(7-36)amide, GLP-1(9-36)amide and GLP-1(1-36)amide. HYB 147-06 does not react with GLP-1 (7-37).
	Species Reactivity	Human
	Epitope Specificity	The amidated C-terminus of GLP-1 (X-36)amide. The epitope specificity differs from that of HYB 147-08, HYB 147-12 and HYB 147-13.
	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	1-2
	Immunohistochemistry (IHC)	Yes	3-4
	Western Blot (WB)	Yes	

PRODUCT SPECIFIC INFORMATION

HYB 147-06 detects GLP-1 (1-36)amide, GLP-1(7-36)amide and GLP-1 (9-36)amide in ELISA, where the antigen is coated directly onto the microtiterplate and in sandwich ELISA, where HYB 147-06 is used as catching antibody and biotinylated HYB 147-12B is used as detection antibody (1-2).

HYB 147-06 has been used for immunohistochemistry (3-4).

In western blotting, HYB 147-06 reacts with GLP-1 (1-36)amide, GLP-1 (7-36)amide and GLP-1 (9-36)amide.

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, pH 7.2 – 7.4
	Storage information:	Store at ≤ - 18 ºC.

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TARGET	Glucagon-like peptide-1 (GLP-1) is a peptide hormone of the glucagon family, mainly produced by the L cells of the intestinal mucosa from the same prohormone as glucagon. GLP-1 (7-36)amide is the principal active form of GLP-1, the other being GLP-1 (7-37). The active forms of GLP-1 stimulate glucose-dependent insulin secretion, whereas the incompletely cleaved GLP-1 (1-36)amide has relatively little bioactivity. Results among mammalian species examined so far show full conservation of the GLP-1 sequence.
REFERENCES	1.Van Delft J et al. Immunoblockade of endogenous Glucagon-Like Peptide-1 by monoclonal antibodies in conscious rats: effect on the insulin response to intragastric glucose. Metabolism 1999; 48(1):41 2.Noels H et al. Reduced post-operative DPP4 activity associated with worse patient outcome after cardiac surgery. Sci Rep 2018;8(1) :11820 3.Nausheen, S., et al. 2013. Effects of sleeve gastrectomy and ileal transposition, alone and in combination, on food intake, body weight, gut hormones, and glucose metabolism in rats. Am. J. Physiol. Endocrinol. Metab. 305: E507 4.Omara B et al Stromal Derived Factor 1 alpha (SDF-1a) in a Dual Therapy with the DPP-4 Inhibitor 1 Vildagliptin does not Enhance Beta Cell Function but Improves Glucose Clearance after Oral Glucose in Streptozotocin Diabetic Mice. J Chem Biol Ther 2016;1(2):110

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Conditions

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