

Anti-GLP-1 (GLP-1(7-36)amide, C-terminal specific)**Mouse monoclonal antibody**

Subclass: IgG1/k

CAT. NO.

HYB 147-06

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, IHC
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	C-terminal epitope of GLP-1(7-36)amide

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:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	ELISA: HYB 147-06 reacts with the amidated C-terminus of GLP-1(7-36)amide, GLP-1(9-36)amide and GLP-1(1-36)amide. HYB 147-06 can be used as capture antibody in sandwich ELISA (1) using HYB 147-12B (total GLP-1) or ABS 033-10B (active 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)). IHC: HYB 147-06 has been used for the immunoblockade of endogenous GLP-1 in rats (2).
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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.
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REFERENCES	<ol style="list-style-type: none">1. Ghigliione 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 release of gastrointestinal hormones using an ex vivo porcine intestinal tissue model. J. Agric. Food Chem. 60:9035-9042.4. Marchetti P, Lupi R, Bugliani M, Kirkpatrick CL, Sebastiani G, Grieco FA, Del Guerra S, D'Aleo V, Piro S, Marselli L, Boggi U, Filipponi F, Tinti L, Salvini L, Wollheim CB, Purrello F, Dotta F (2012) A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. Diabetologia 55:3262-3272.
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