

PRODUCT SPECIFICATION



HYB 147-12 Anti-GLP-1 (Mid-molecule specific)

Mouse monoclonal antibody

OVERVIEW	Article No.	100915 (0.2 mL), 100916 (1.0 mL)	
	Product Name	HYB 147-12 Anti GLP-1 (Mid-molecule specific)	
	Clone ID	4F3	
	Subclass	IgG1 / Kappa	
	Specificity	HYB 147-12 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	1-2
	Immunoaffinity SELDI-TOF MS	Yes	3
	Western Blot (WB)	Yes	
PRODUCT SPECIFIC INFORMATION	In ELISA HYB 147-12 binds to all forms of GLP-1 coated directly in the microtiter well. Biotinylated HYB 147-12 is the preferred detection antibody for measuring C-terminally amidated forms of GLP-1 in combination with HYB 147-06 as capture antibody (1-2). HYB 147-12 is applicable for immunoaffinity (3). In western blotting HYB 147-12 reacts with all forms of GLP-1: GLP-1 (1-36)amide, GLP-1 (7-36)amide, GLP-1 (9-36)amide, GLP-1 (7-37), and GLP-1 (9-37).		
PROPERTIES	Conjugation:	Unconjugated	
	Form	Liquid	
	Preparation:	Protein A	
	Concentration:	1 mg/mL \pm 10%, based on A ₂₈₀ . See Certificate of Analysis for details.	
	Solvent:	PBS	
	Storage information:	Store at \leq -18 °C.	

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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.
REFERENCES	<ol style="list-style-type: none">1. 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 12:117.2. Noels H et al Sci Reports (2018) 8:118203. Felix, K., et al. 2011. Identification of serum proteins involved in pancreatic cancer cachexia. Life Sci. 88: 218-225.

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Conditions

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