



Monoclonal antibody against human Glucagon-like peptide-1 (GLP-1)

Product No. BP147-08

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Description

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 pro-hormone 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.

Preparation

No. BP147-08 is a mouse IgG2a/k monoclonal antibody purified from cell culture supernatant by Protein A/G affinity chromatography. Synthetic GLP-1 (7-36) amide coupled to carrier and adsorbed onto aluminum hydroxide gel was used as the immunizing antigen.

Specificity

BP147-08 reacts with all forms of GLP-1, including precursor.

Epitope Specificity

Mid-molecular epitope of GLP-1. Differs from that of BP147-06 (C-terminal amide).

Reactivity

BP147-08 binds to GLP-1 when coated directly onto the microtiter well, and binds GLP-1(7-36)amide in solution giving a K_a of 1.2×10^7 in inhibition ELISA. BP147-08 does not cross-react with coated glucagon or human GLP-2. In inhibition ELISA no binding of free glucagon in solution is detected, giving an estimated cross-reactivity of <0.2%. Although not tested, BP147-08 is likely to detect all known molecular forms of GLP-1 in immunohistochemistry.

Presentation

Screw capped vial containing 100 µg of purified IgG. Concentration 1 mg/ml 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide.

Storage and Stability

Store the antibody at 2°-8°C. The antibody may be aliquoted and stored frozen at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

Applications

ELISA (The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.5 µg/mL. Users should determine the optimal dilutions for their own purposes)

Western blot