



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

Product No. BP011-05

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Description

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. GLP-1 (1-36) amide is an incompletely processed precursor form showing relatively little bioactivity.

Preparation

No. BP011-05 is a mouse IgG1/k monoclonal antibody purified from cell culture supernatant by Protein A/G affinity chromatography. Synthetic peptide coupled to diphtheria toxoid with glutaraldehyde was used as the immunizing antigen.

Specificity

BP011-05 is specific for the N-terminal region (residues 1-6) of the GLP-1. No cross-reactivity with GLP-1 (7-36) amide or (7-37). GLP-1 is 100% conserved in all tested mammalian species.

Epitope Specificity

BP011-05 is specific for residues 1-6 of GLP-1.

Reactivity

BP011-05 reacts with the low activity enzyme GLP-1(1-36) amide, but not with either of the activated forms GLP-1(7-36)amide and GLP-1(7-37) amide.

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

References

1. Ghigliione M, Uttenthal LO, Koch C (1993) Monoclonal antibodies to glucagon-like peptide-1. Digestion 54:396-397.