HYB 347-06 Anti Pancreatic polypeptide (PP)
Mouse monoclonal antibody

Article No. 63471 (0.2 mL), 101092 (1.0 mL)

Product Name HYB 347-06 Anti Pancreatic polypeptide (PP)
Clone 12G4
Subclass IgG1 / Kappa

Description Preparation: Protein-A purified
Concentration: 1 mg/mL ± 10%, based on A\text{280}. See Certificate of Analysis for details.
Solvent: PBS, pH 7.2 – 7.4
Storage: -18 ºC or colder

Antigen Human Pancreatic Polypeptide (PP or Pancreatic hormone) is synthesized by neuroendocrine cells in the pancreas and is found in enteric nerves. Its release is stimulated during all phases of digestion and increases gastric acid secretion and motility in the stomach and intestine. PP has been shown to suppress appetite. Mice and men with overweight have relatively low levels of PP in contrast to anorexics, who have increased levels of PP [1]. Transgenic mice with an over expression of PP showed reduced food intake, which was reversed by administration of PP antiserum [2]. PP consists of 36 amino acids and has a molecular weight of 4391 Da.

Immunogen Pancreatic polypeptide analogue.

Specificity Human Pancreatic polypeptide. Cross reactivity with pancreatic hormones from other species has not been investigated.

Epitope Specificity HYB 347-06 reacts with a different epitope than HYB 347-07.

Reactivity HYB 347-06 reacts well in ELISA coated with pancreatic polypeptide and detects low nM amounts [200 pg/ml] of pancreatic polypeptide in radio immunoassays (RIA). Using HYB 347-06 as catching antibody and biotinylated HYB 347-07 as detection antibody generates a sandwich immunoassay with a detection limit at approximately 10 pg/ml of pancreatic polypeptide.

Culture Medium Dulbecco's modified Eagle's medium with 10% fetal calf serum.

Fusion Partner X63-Ag8.653.

Immunization Female NMRI mice were immunized i.p. with immunogen.

Application Method Usability
ELISA yes
RIA yes
Immunoblotting nd.
Immuno.fluoresc. nd.

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References


Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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