HYB 347-07 Anti Pancreatic polypeptide (PP)
Mouse monoclonal antibody

Article No. 63472
Product Name HYB 347-07 Anti Pancreatic polypeptide (PP)
Clone 18B11
Subclass IgG2a / Kappa

Description
Preparation: Protein-A purified
Content: 1 mg/mL, based on $E_{1\%}=14.0$ at $A_{280}$
Solvent: 0.01 M PB, pH 7.4, with 0.5 M NaCl
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 347-07 reacts with a different epitope than HYB 347-06.

Reactivity
HYB 347-07 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

<table>
<thead>
<tr>
<th>Method</th>
<th>Usability</th>
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</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>yes</td>
</tr>
<tr>
<td>RIA</td>
<td>yes</td>
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<tr>
<td>Immunoblotting</td>
<td>nd.</td>
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<td>Immuno fluoresc.</td>
<td>nd.</td>
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See next page
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References

Conditions
For research use only. Not for use in diagnostic procedures.
The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.