

PRODUCT SPECIFICATION



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 \pm 10%, based on A ₂₈₀ . See Certificate of Analysis for details.										
	Solvent:	PBS, pH 7.2 – 7.4										
	Storage:	-18 °C 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	<table border="1"><thead><tr><th>Method</th><th>Usability</th></tr></thead><tbody><tr><td>ELISA</td><td>yes</td></tr><tr><td>RIA</td><td>yes</td></tr><tr><td>Immunoblotting</td><td>nd.</td></tr><tr><td>Immuno.fluoresc.</td><td>nd.</td></tr></tbody></table>	Method	Usability	ELISA	yes	RIA	yes	Immunoblotting	nd.	Immuno.fluoresc.	nd.	
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See next page

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References

- 1) **Druce, M.R., Small, C.J. and Bloom, S.R.** (2004) Minireview: gut peptides regulating satiety. *Endocrinol.* 145, 2660-2665.
- 2) **Asakawa, A., Inui, A., Yuzuriha, H., Ueno, N., Katsuura, G. and Fujimiya, M.** (2003) Characterization of the effects of pancreatic polypeptide in the regulation of energy balance. *Gastroenterology* 124, 1325-1336

Conditions

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