

## Human PPY Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0481	<b>Applications</b>	ELISA
<b>Synonyms</b>	Obinepitide;PNP;Pancreatic Polypeptide Y;Pancreatic icosapeptide;Pancreatic prohormone		

### Kit components & Storage

Title	Specifications	Storage
Human PPY Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human PPY Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

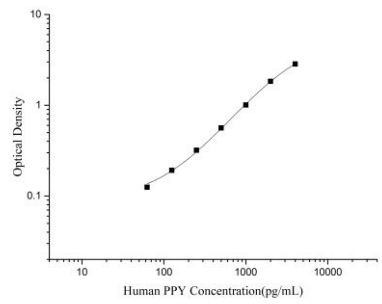
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0481)	
		Human PPY Capture Antibody	Human PPY Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PPY protien	Recombinant Human PPY protien
	Swissprot	P01298	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human PPY in ELISAs.	

## Applications

Human PPY Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4 µg/mL	Human PPY Capture Antibody	 <p>The graph displays a standard curve for the Human PPY Sandwich ELISA Assay. The x-axis represents Human PPY Concentration in pg/mL on a logarithmic scale from 10 to 10,000. The y-axis represents Optical Density on a logarithmic scale from 0.1 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between the concentration of Human PPY and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PPY Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.15</td> </tr> <tr> <td>200</td> <td>0.25</td> </tr> <tr> <td>500</td> <td>0.5</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>2000</td> <td>2.0</td> </tr> <tr> <td>5000</td> <td>5.0</td> </tr> </tbody> </table>	Human PPY Concentration (pg/mL)	Optical Density	100	0.15	200	0.25	500	0.5	1000	1.0	2000	2.0	5000	5.0
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ELISA Detection	1:1000-1:10000	Human PPY Detection Antibody (Biotin)															

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

This gene encodes a member of the neuropeptide Y (NPY) family of peptides. The encoded 95 aa preproprotein is synthesized in the pancreatic islets of Langerhans and proteolytically processed to generate two peptide products. These products include the active pancreatic hormone of 36 aa and an icosapeptide of unknown function. This hormone acts as a regulator of pancreatic and gastrointestinal functions and may be important in the regulation of food intake. Plasma level of this hormone has been shown to be reduced in conditions associated with increased food intake and elevated in anorexia nervosa. In addition, infusion of this hormone in obese rodents has shown to decrease weight gain. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.