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PPY Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1780a

Product Information

Application	WB, FC, E
Primary Accession	P01298
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2G5D12
Isotype	IgG1
Calculated MW	10445
Description	This gene belongs to the NPY family and it encodes a protein that is synthesized as a 95 aa polypeptide precursor in the pancreatic islets of Langerhans. It is cleaved into two peptide products; the active hormone of 36 aa and an icosapeptide of unknown function. The 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.
Immunogen	Purified recombinant fragment of human PPY (AA: 1-95) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	5539
Other Names	Pancreatic prohormone, Pancreatic polypeptide, PP, Obinepitide, Pancreatic hormone, PH, Pancreatic icosapeptide, PI, PPY, PNP
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PPY Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPY (HGNC:9327)

Synonyms	PNP
Function	[Pancreatic polypeptide]: Hormone secreted by pancreatic cells that acts as a regulator of pancreatic and gastrointestinal functions probably by signaling through the G protein-coupled receptor NPY4R2.
Cellular Location	Secreted

References

1.Am J Clin Nutr. 2011 Oct;94(4):967-72. 2.Pharm Res. 2012 Jun;29(6):1698-711.

Images

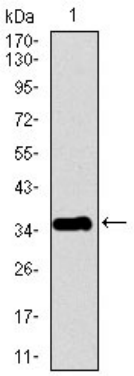

Figure 1: Western blot analysis using PPY mAb against human PPY recombinant protein. (Expected MW is 35.9 kDa)

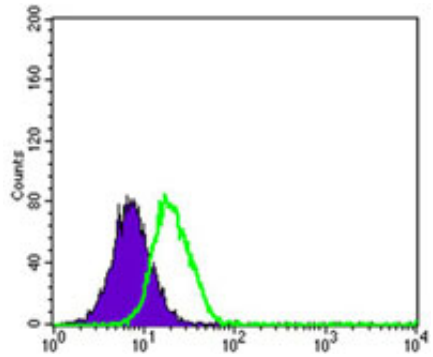

Figure 2: Flow cytometric analysis of HepG2 cells using PPY mouse mAb (green) and negative control (purple).