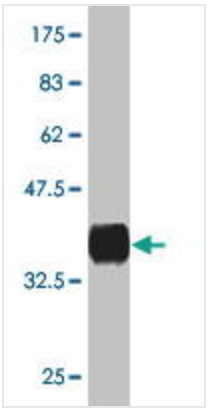
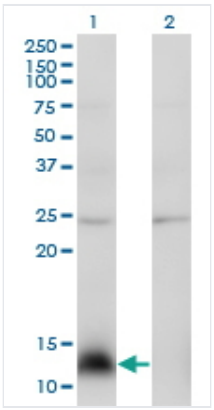
NPY Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NPY, Monoclonal Antibody
Full Product Name	NPY (Neuropeptide Y, PYY4) (HRP)
Product Gene Name	anti-NPY antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NPY.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	10,851 Da
Immunogen	Partial recombinant corresponding to aa29-98 from human NPY (AAH29497) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRYGKRSSPETLISDLLMRESTENVPRTRLEDPAMW
Conjugate	HRP
Product Categories/Family for anti-NPY antibody	Antibodies; Neuroscience
Applications Tested/Suitable for anti-NPY antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-NPY antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NPY antibody	Neuropeptide Y (NPY) is a 36aa residue peptide with sequence and 3-D structural homology with PYY and pancreatic polypeptide (PP). NPY serves as a neurotransmitter and is exclusively localized in neurons in the central and peripheral nervous system. NPY is associated with the regulation of heart rate and food intake in several mammalian species.
Other Notes	Small volumes of anti-NPY antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPY purchase	MBS6153847 is an antibody targeting NPY. Also known as NPY (Neuropeptide Y, PYY4) (HRP). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-NPY antibody
Western Blot detection against Immunogen (33.33kD).



Western Blot (WB) of anti-NPY antibody
Western Blot analysis of NPY expression in transfected 293T cell line by NPY monoclonal antibody. Lane 1: NPY transfected lysate (10.9kD). Lane 2: Non-transfected lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPY. It may not necessarily be applicable to this product.

NCBI GI #	20809582
NCBI GeneID	4852
NCBI Accession #	BC029497
NCBI Related Accession #	AAH29497
UniProt Related Accession #	P01303
NCBI Official Full Name	Homo sapiens neuropeptide Y, mRNA
NCBI Official Synonym Full Names	neuropeptide Y
NCBI Official Symbol	NPY
NCBI Official Synonym Symbols	PYY4
Protein Family	Neuropeptide
NCBI Protein Information	pro-neuropeptide Y
NCBI Summary for NPY	This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]
Research Articles on NPY	**1.** polymorphisms in the gene may be useful in identifying women at risk for osteoporosis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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