

Rabbit NPY Polyclonal Antibody | anti-NPY antibody

NPY Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326200	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

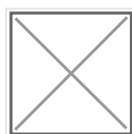
PRODUCT SYNONYMS

NPY; Polyclonal Antibody; NPY Antibody; C-flanking peptide of NPY; CPON; Neuropeptide tyrosine; Neuropeptide Y precursor; NPY_HUMAN; Pro neuropeptide Y; PYY 4; PYY4; Y Neuropeptide; anti-NPY antibody

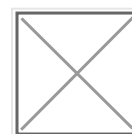
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NPY antibody detects endogenous levels of total NPY
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	97
Applicable Applications for anti-NPY antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NPY
Subcellular Location	Secreted.
Tissue Specificity	One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


IHC (Immunohistochemistry)

AAA326200 at 1/200 staining Rat brain tissue sections by IHC-P.


WB (Western Blot)

Western blot analysis of extracts of 293T, using NPY antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326200 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NPY antibody	Description: The NPY hormone family consists of NPY, PP and peptide YY. NPY (neuropeptide Y) is a 36 amino acid protein that consists of a polyproline stretch followed by an amphipathic a-helix. NPY shares a 50% amino acid homology with pancreatic polypeptide gene (PP). NPY is expressed throughout the central and peripheral nervous system, particularly in the deep layers of the cortex and smaller cell bodies in the white matter. NPY interacts with the Y-receptor family of G protein-coupled receptors. NPY interacts with NPY receptor Y1 to increase corticotropin levels and decrease noradrenaline levels in the hypothalamus. Through interactions in the hypothalamus, NPY plays important roles in the regulation of energy balance by stimulating food intake. NPY favors energy storage by increasing lipoprotein lipase activity in white adipose tissue. A Leucine 7 to Proline 7 polymorphism has been implicated in an increase in alcohol preference, and decrease in cholesterol metabolism. Function: NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone. Post-translational Modifications: The neuropeptide Y form is cleaved at Pro-30 by the prolyl endopeptidase FAP (seprase) activity (in vitro). Similarity: Belongs to the NPY family.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505449
NCBI GeneID	4852
NCBI Accession #	NP_000896.1
NCBI GenBank Nucleotide #	NM_000905.3
UniProt Accession #	P01303
Molecular Weight	Observed: 11 kDa Predicted: 11 kDa
NCBI Official Full Name	pro-neuropeptide Y preproprotein
NCBI Official Synonym Full Names	neuropeptide Y
NCBI Official Symbol	NPY
NCBI Official Synonym Symbols	PYY4
NCBI Protein Information	pro-neuropeptide Y
UniProt Protein Name	Pro-neuropeptide Y
UniProt Gene Name	NPY
UniProt Synonym Gene Names	NPY; CPON

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.