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PRODUCT DATASHEET

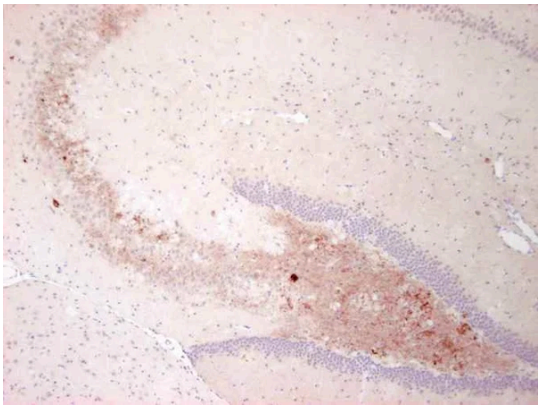
Anti-Neuropeptide Y Antibody

Product Details

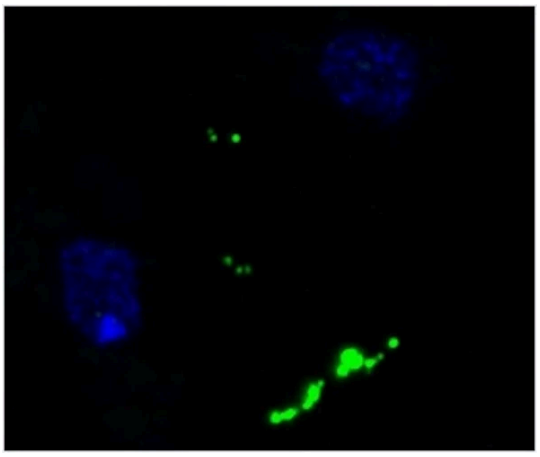
Available Variants	100 uL (SKU:ABS 028-08-010) 400 uL (SKU:ABS 028-08-04) 1000 uL (SKU:ABS 028-08-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	8
Gene Name	NPY
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IF, IHC
Dilution Ranges	IHC: 1:1000
Species Reactivity	Human, Mouse
Immunogen	Synthetic human/rat neuropeptide Y
Specificity	ABS 028-08 binds full length human/rat NPY. Cross-reactivity with NPY (1-24), NPY (18-36), PYY or PP was <0.2%. The epitope of ABS 028-08 is probably around the mid-molecular region, NPY (18-24).
Molecular Weight	11 kDa (precursor/processed), 4 kDa (mature pepide)
Storage	2-8°C without exposure to light
UniProt ID	P01303 UniProt Summary: [Neuropeptide Y]: Ligand for neuropeptide Y receptor type 1

	(NPY1R) and neuropeptide Y receptor type 2 (NPY2R) (PubMed:1321422, PubMed:7592910, PubMed:35165283, PubMed:35507650, PubMed:36525977, PubMed:38882210). Receptor binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling, resulting in inhibition of cAMP production (PubMed:1321422, PubMed:7592910, PubMed:38882210). Receptor activation by NPY also leads to an increase of intracellular Ca(2+) levels (PubMed:1321422, PubMed:35165283, PubMed:7592910). Is involved in the regulation of eating behavior, acting as a stimulator of food intake (By similarity). Involved in the regulation of colonic antisecretory tone, and colonic contractility (By similarity). {ECO:0000250|UniProtKB:P07808, ECO:0000250|UniProtKB:P57774, ECO:0000269|PubMed:1321422, ECO:0000269|PubMed:35165283, ECO:0000269|PubMed:35507650, ECO:0000269|PubMed:36525977, ECO:0000269|PubMed:38882210, ECO:0000269|PubMed:7592910}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	4852

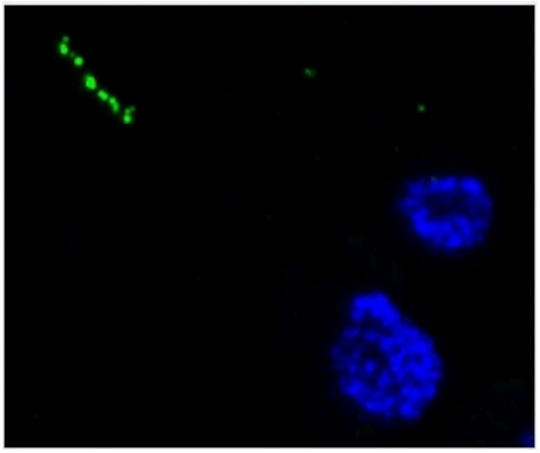
Product Images



Immunohistochemistry detection of Neuropeptide Y in mouse brain tissue using Anti-Neuropeptide Y Antibody (Cat.ABS 028-08-010). Tissue was mounted and pariffin fixed. Heat induced antigen retrieval was performed using citrate buffer, heated, and then blocked. After washing, the primary antibody (Cat.ABS 028-08-010) was incubated with the sample at a dilution of 1:1000. Staining of fibres in the hilus of the hippocampus from a mouse suffering an epiletic attack.



Immunofluorescent staining of Neuropeptide Y in human cerebral cortex using Anti-Neuropeptide Y Antibody (Cat.ABS 028-08-010). Cells where fixed with formaldehyde and permeabilized prior to staining Primary antibody (ABS 028-08-010) was incubated with the cells at a dilution of 1:10.



Immunofluorescent staining of Neuropeptide Y in human cerebral cortex using Anti-Neuropeptide Y Antibody (Cat.ABS 028-08-010). Cells where fixed with formaldehyde and permeabilized prior to staining Primary antibody (ABS 028-08-010) was incubated with the cells at a dilution of 1:10.