



Anti-Neuropeptide Y (human, NPY)

Subclass: IgG1/k

PRODUCT NO. **ABS 028-08**

PRESENTATION Preparation: Protein-A/G purified
 Content: Available in 200 µL and 1 mL, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide
 Storage: In the dark at 4-8°C

ANTIGEN Neuropeptide Y (NPY) is a 36-amino-acid 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.

IMMUNOGEN Synthetic human/rat NPY coupled to carrier with glutaraldehyde

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%.

EPITOPE SPECIFICITY The epitope of ABS 028-08 is probably around the mid-molecular region, NPY (18-24).

REACTIVITY ABS 028-08 binds free NPY in solution.
 ABS 028-08 reacts in ELISA directly with NPY coated directly onto the microtiter well.

CULTURE MEDIUM RPMI 1640 with 10% fetal calf serum

FUSION PARTNER SP2mIL6.

IMMUNIZATION Female NMRIxBALB/c mice immunized i.p. with immunogen adsorbed onto aluminum hydroxide gel and emulsified in Freund's incomplete adjuvant.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:16,000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.