

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NPY2R in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 557521
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived transfected with recombinant human NPY2R Met1-Val381 Accession # P49146
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

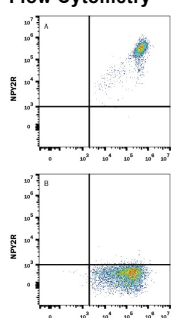
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of NPY2R in HEK293 Human Cell Line Transfected with Human NPY2R and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) Human NPY2R or (B) irrelevant protein, and EGFP, was stained with Mouse Anti-Human NPY2R Monoclonal Antibody (Catalog # MAB10211) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on Mouse IgG1 isotype control antibody staining (Catalog # MAB002). View our protocol for [Staining Membrane-associated Proteins](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NPY2R is a member of the G protein-coupled receptor 1 family. Functionally, NPY2R is a receptor for neuropeptide Y and peptide YY. Neuropeptide Y is one of the most abundant neuropeptides in the mammalian nervous system and exhibits a diverse range of important physiologic activities, including effects on psychomotor activity, food intake, regulation of central endocrine secretion, and potent vasoactive effects on the cardiovascular system. NPY receptors represent novel molecular therapeutic targets in cancer and obesity.