

Human HM74A/PUMA-G/GPR109A PE-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 245106

Catalog Number: FAB2760P

100 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HM74A/PUMA-G/GPR109A. Stains human HM74A/PUMA-G/GPR109A-transfected cells but not irrelevant transfectants. Cross-reactivity with HM74 (GPR109B) was not tested.
Source	Monoclonal Rat IgG _{2B} Clone # 245106
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human HM74A/PUMA-G/GPR109A Met1-Pro363 Accession # Q8TDS4
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

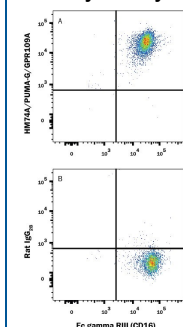
APPLICATIONS

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	10 µL/10 ⁶ cells	See Below

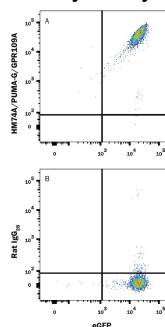
DATA

Flow Cytometry



Detection of HM74A/PUMA-G/GPR109A in Human Blood Neutrophils by Flow Cytometry. Human peripheral blood neutrophils were stained with (A) Rat Anti-Human HM74A/PUMA-G/GPR109A PE-conjugated Monoclonal Antibody (Catalog # FAB2760P) or (B) isotype control antibody (Catalog # IC013P) and Mouse anti-Human Fc gamma RIII (CD16) APC-conjugated Monoclonal Antibody (Catalog # FAB2546A). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry



Detection of HM74A/PUMA-G/GPR109A in HEK293 Human Cell Line Transfected with Human HM74A/PUMA-G/GPR109A and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human HM74A/PUMA-G/GPR109A and eGFP were stained with (A) Rat Anti-Human HM74A/PUMA-G/GPR109A PE-conjugated Monoclonal Antibody (Catalog # FAB2760P) or (B) Isotype Control antibody (Catalog # IC013P). View our protocol for [Staining Membrane-associated Proteins](#).

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

HM74A/GPR109A (also known as PUMA-G in mouse) is a 50-55 kDa 7-transmembrane protein member of a small subfamily within the GPCR #1 family. It is expressed on or in a wide variety of cells, including microglia, neutrophils, islet β-cells, macrophages, adipocytes, retinal pigment epithelium and keratinocytes. Although HM74A is noted for its ability to bind niacin, its natural ligand is β-hydroxybutyrate. Thus it may naturally act as a negative regulator of fatty acid release by fat, which is converted to ketone bodies by the liver, and which feedback on adipocytes. Full-length human HM74A shares 95% amino acid (aa) sequence identity with human HM74 and 81% aa sequence identity with mouse HM74A.