

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

Monoclonal Rat IgG2B Clone # 245106 Catalog Number: FAB2760F

100 Tests

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human HM74A/GPR109A. Stains human HM74A/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/GPR109A Met1-Pro363 Accession # Q8TDS4	
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)	
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	

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, it 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.

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