

Human GPR111 Antibody

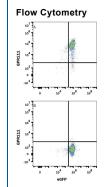
Monoclonal Mouse IgG_{2A} Clone # 594519 Catalog Number: MAB6494

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human GPR111 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 594519
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived recombinant human GPR111 Cys19-Lys375 Accession # Q8IZF7
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 Flow Cytometry 0.25 µg/10⁶ 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



Detection of GPR111 in HEK293 Human Cell Line Transfected with Human GPR111 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human GPR111 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human GPR111 Monoclonal Antibody (Catalog # MAB6494) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003, data not shown). 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. • 12 months from date of receipt, -20 to -70 °C as supplied.
	1 months, 2 to 8 °C under sterile conditions after reconstitution. 6 months -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

GPR111 (G-protein coupled receptor 111; also PRG20) is a 71 kDa (predicted), seven transmembrane (TM) member of the GPR-2 family, LN-7TM subfamily of molecules. It is reportedly expressed in lung, mammary gland and diencephalon. Human GPR111 is 642 amino acids (aa) in length. It contains an extended N-terminal extracellular region with a mucin like stalk (aa 1-383), followed by a series of seven TM domains and a short C-terminal cytoplasmic tail. The N-terminus possesses a GPS (GPCR proteolytic site) (aa 324-368) that likely generates a soluble cleavage product. GPR111 is considered an adhesion-type GPCR, and as such, is expected to form dimers, if not oligomers. There is one potential splice variant for GPR111. It shows a 92 aa substitution for aa 1-24 coupled to a 19 aa substitution for aa 622-642. Over aa 19-375, human GPR111 shares 68% aa identity with mouse GPR111.

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