Human LPAR1/LPA$_1$/EDG-2 Antibody

Monoclonal Mouse IgG$_1$ Clone # 1020714

Catalog Number: MAB99631

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LPAR1/LPA$_1$/EDG-2 in direct ELISAs.
Source	Monoclonal Mouse IgG$_1$ Clone # 1020714
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human LPAR1/LPA$_1$/EDG-2 Met1-Lys50 Accession # Q92633
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.

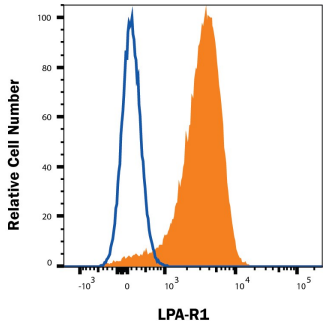
APPLICATIONS

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	Human PBMC Monocytes
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 LPAR1/LPA1/EDG-2 in Human PBMC Monocytes by Flow Cytometry. Human PBMC monocytes were stained with Mouse Anti-Human LPAR1/LPA1/EDG-2 Monoclonal Antibody (Catalog # MAB99631, filled histogram) or Mouse IgG1 Isotype Control Antibody (Catalog # MAB002, open histogram) followed by anti-Mouse IgG APC-conjugated secondary antibody (Catalog # F0101B). Staining was performed using our Staining Membrane-associated Proteins protocol.

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 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Lysophosphatidic acid receptor 1, LPAR1, also known as EDG-2, is a G protein-coupled receptor that binds the lipid signaling molecule lysophosphatidic acid (LPA). EDG molecules are G protein-coupled receptors that bind plasma lysophospholipids. The EDG family consists of two subfamilies; the S1P (sphingosine-1-phosphate) subfamily consisting of EDG-1, 3, 5, 6, and 8, and the LPA subfamily that contains EDG-2, 4 and 7. The S1P family regulates essential cellular processes such as proliferation, migration, cytoskeletal organization, and differentiation.

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