Human GPR37 Antibody

Monoclonal Mouse IgG_{2A} Clone # 436923

Catalog Number: MAB4450

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPR37.
Source	Monoclonal Mouse IgG_{2A} Clone # 436923
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human GPR37 Ala27-Cys613 Accession # O15354
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 as a 0.2 μm filtered solution in PBS.

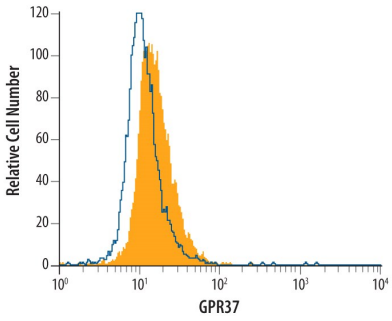
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	2.5 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

Intracellular Staining by Flow Cytometry



Detection of GPR37 in A172 Human Cell Line by Flow Cytometry. A172 human glioblastoma cell line was stained with Mouse Anti-Human GPR37 Monoclonal Antibody (Catalog # MAB4450, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

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

GPR37 (G-protein coupled receptor 37), also called ETBR-LP-1 (endothelin B receptor-like protein 1) or PAELR (Parkin-associated endothelin receptor-like receptor) is a 613 aa, ~55 kDa orphan 7-transmembrane receptor. It is mainly expressed in neuronal cells, particularly in cerebellar Purkinje cells and the hippocampus. It is a substrate of the E3 ubiquitin ligase, parkin, which is upregulated during endoplasmic reticulum stress. In a juvenile form of Parkinson's disease, GPR37 accumulates, contributing to stress-induced neuronal cell death. The extracellular portions of human and mouse GPR37 share 68% aa identity.

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