Human GPR37
Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 436923

Catalog Number: IC4450S

100 µg

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL 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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	A172 human glioblastoma cell line fixed with paraformaldehyde and permeabilized with saponin

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.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

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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