

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPR37 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1036313
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line CHO-derived human GPR37 Leu28-Met265 Accession # O15354
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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 587 aa, 7-transmembrane receptor for the neuroprotective and glioprotective factor prosaposin (1, 4). It is mainly expressed in neuronal cells, particularly in cerebellar Purkinje cells and the hippocampus (2). It is a substrate of the E3 ubiquitin ligase, parkin, which is up-regulated during endoplasmic reticulum stress (3). In a juvenile form of Parkinson's disease, GPR37 accumulates, contributing to stress-induced neuronal cell death (2). The extracellular domains (aa 27-265) of human and mouse GPR37 share 68% aa identity.

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