Human GPR37 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1036313

Catalog Number: MAB44501

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
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.

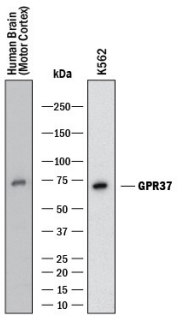
APPLICATIONS

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
Western Blot	2 µg/mL	Human brain (motor cortex) and K562 human chronic myelogenous leukemia cell line

DATA

Western Blot



Detection of Human GPR37 by Western Blot. Western blot shows lysates of human brain (motor cortex) and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human GPR37 Monoclonal Antibody (Catalog # MAB44501) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for GPR37 at approximately 74 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

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 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 extracelluar domains (aa 27-265) of human and mouse GPR37 share 68% aa identity.

References:

1. Marazziti, D. et al. (1997) Genomics, **45**:68.
2. Donohue, P.J. et al. (1998) Brain Res Mol Brain Res. **54**:152.
3. Omura, T. et al. (2006) J Neurochem. **99**:1456.
4. Meyer, R.C. *et al. (*2013) Proc. Natl. Acad. Sci. U. S. A. **110**: 9529

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