

DESCRIPTION

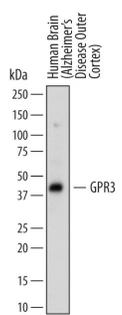
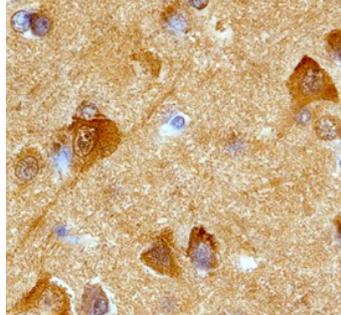
Species Reactivity	Human
Specificity	Detects human GPR3 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 669867
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human GPR3 Accession # NP_005272
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
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human GPR3 by Western Blot. Western blot shows lysates of human brain (Alzheimer's disease outer cortex) tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human GPR3 Monoclonal Antibody (Catalog # MAB7429) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for GPR3 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>GPR3 in Human Brain. GPR3 was detected in immersion fixed paraffin-embedded sections of Alzheimer's human brain using Mouse Anti-Human GPR3 Monoclonal Antibody (Catalog # MAB7429) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> • 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

GPR3, previously called ACCA (adenylate cyclase constitutive activator), is 7-transmembrane receptor with potential sites for glycosylation at the N-terminus and serine phosphorylation at the C-terminus. It has been shown to promote cAMP accumulation, which regulates maintenance of meiotic arrest in oocytes. It is also expressed in the brain, where it has been implicated in cAMP-dependent emotional responses and modulation of amyloid-beta peptide generation. The 330 amino acid (aa) human GPR3 contains 86 extracellular aa that share ~83% aa identity with mouse and rat GPR3.