

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPR12 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 584940
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human GPR12 Met1-Val334 Accession # P47775
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with human GRP12 and eGFP

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

GPR12 is a 7-transmembrane receptor for sphingosylphosphorylcholine. Human GPR12 and the related GPR3 and GPR6 are all highly expressed on neurons of the central nervous system, while GPR12 is particularly expressed in the limbic system. GPR12 engagement promotes proliferation and maturation of postmitotic neurons through an inhibitory G protein and cAMP signaling pathway. Human GPR12 cDNA encodes 334 amino acids (aa), 89 of which are extracellular; these share 86% aa identity with mouse and rat GPR12.

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