

DESCRIPTION

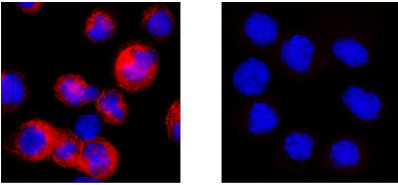
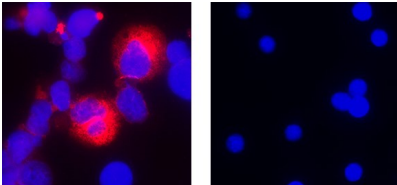
Species Reactivity	Human
Specificity	Detects human GPR88 in ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1039818
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human GPR88 synthetic peptide
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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
Immunocytochemistry	3-25 µg/mL	Immersion fixed NS0 mouse myeloma cell line and HEK293 cell line transfected with GPR88

DATA

<p>Immunocytochemistry</p>  <p>Detection of GPR88 in NS0 Mouse Cell Line. GPR88 was detected in immersion fixed NS0 mouse myeloma cell line transfected with GPR88 (positive staining) and absent in NS0 mouse myeloma cell line (wild type, negative control) using Mouse Anti-Human GPR88 Monoclonal Antibody (Catalog # MAB108281) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>	<p>Immunocytochemistry</p>  <p>Detection of GPR88 in HEK293 human cell line. GPR88 was detected in immersion fixed HEK293 human cell line transfected with GPR88 (positive staining) and absent in HEK293 cell line (wild type, negative control) using Mouse Anti-Human GPR88 Monoclonal Antibody (Catalog # MAB108281) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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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. <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

GPR88 is an orphan receptor that probably belongs to the G-protein coupled receptor family. Ligands for this receptor still largely remain unknown but agonists have been discovered. It is a brain-specific receptor with almost exclusive expression in the striatum, being preferentially localized in medium spiny neurons. Because of its expression, GPR88 is emerging as a drug target for CNS disorders such as schizophrenia, Parkinson's disease, anxiety, and addiction. Gpr88 KO mice data suggests that striatal GPR88 receptors influence activity in a range of procedures integrated by prefrontal, orbitofrontal and anterior cingulate cortico-striatal-thalamic loops leading to altered cognitive, motivational and reward evaluation processes.