

DESCRIPTION

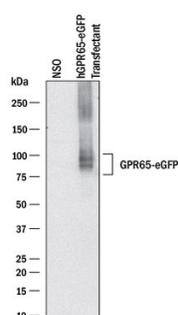
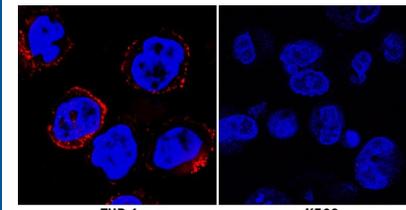
Species Reactivity	Human
Specificity	Detects human TDAG8/GPR65 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 976128
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human TDAG8/GPR65 Met1-Glu337 Accession # Q811YL9
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	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human TDAG8/GPR65 by Western Blot. Western blot shows lysates of NS0 mouse myeloma cell line either mock transfected or transfected with human TDAG8/GPR65. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human TDAG8/GPR65 Monoclonal Antibody (Catalog # MAB10077) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for TDAG8/GPR65 at approximately 85-95 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>TDAG8/GPR65 in THP-1 and K562 Human Cell Lines. TDAG8/GPR65 was detected in immersion fixed THP-1 human acute monocytic leukemia cell line (left panel, positive stain) and K562 human chronic myelogenous leukemia cell line (right panel, negative stain) using Mouse Anti-Human TDAG8/GPR65 Monoclonal Antibody (Catalog # MAB10077) 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 cell surfaces. 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

Human G Protein-Coupled Receptor 65 (GPR65), also known as T-Cell Death-Associated Gene 8 Protein (TDAG8) and Psychosine Receptor, is a 337 aminoacids proton-sensing GPCR primarily expressed in lymphoid tissues and is uniquely expressed in Th17 cells; mice deficient in GPR65 are resistant to autoimmunity. GPR65 senses pH by protonation of histidine residues on its extracellular domain. Many pH-sensing G protein-coupled receptors have emerged as potential therapeutic agents in conditions that involve the response to acidotic stress.