Human GPR108 Antibody

Monoclonal Mouse IgG_{2A} Clone # 1047612

Catalog Number: MAB11128

DESCRIPTION

Species Reactivity	Human
Specificity	
Source	Monoclonal Mouse IgG_{2A} Clone # 1047612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human GPR108 synthetic peptide Accession # Q9NPR9
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.

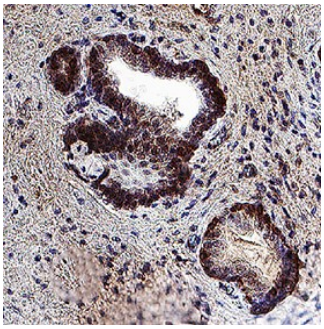
APPLICATIONS

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	1 µg/mL	See below
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of Human Prostate

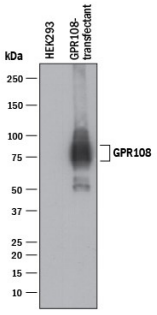
DATA

Immunohistochemistry



GPR108 in Human Prostate. GPR108 was detected in immersion fixed paraffin-embedded sections of human prostate using Mouse Anti-Human GPR108 Monoclonal Antibody (Catalog # MAB11128) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface and cytoplasm in glandular epithelial cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Western Blot



Detection of Human GPR108 by Western Blot. Western blot shows lysates of HEK293T human embryonic kidney cell line (wild type) and HEK293T human embryonic kidney cell line transfected with human GPR108. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human GPR108 Monoclonal Antibody (Catalog # MAB11128) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for GPR108 at approximately 75-80 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

Human GPR108, also known as Lung seven transmembrane receptor 2, is a 543 amino acids long receptor belonging to the G-protein-coupled receptors (GPCRs) family of receptors. Human GPR108 may play a role in intracellular immune modulation by activating NF-kappaB response and attenuating Toll-like-receptor response (1). I has also been shown essential function in adeno-associated virus (AAV) entry to cells (2).

References:

1. Dong D. et al. PLoS One. 2018 Oct 17;13(10):e0205303
2. Dudek AM. et al. Mol Ther. 2020 Feb 5;28(2):367-381.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449