

Human GPR64 Antibody

Monoclonal Mouse IgG_{2B} Clone # 206420 Catalog Number: MAB7977

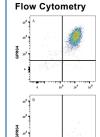
| DESCRIPTION | | | | |
|--------------------|--|--|--|--|
| Species Reactivity | Human | | | |
| Specificity | Detects human GPR64 transfectants in cell-based ELISA and Flow Cytometry. | | | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 206420 | | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | | |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human GPR64 Leu38-Asn64, Glu68-Thr553 Accession # NP_001073328 | | | |
| 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 |
|----------------|---|---|
| Flow Cytometry | 0.25 μg/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled u with conjugation. | sing established conjugation methods. No BSA or other carrier proteins that could interfere |

DATA



Detection of GPR64 in HEK293 Human Cell Line Transfected with Human GPR64 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) Human GPR64 or (B) Human GPR75 (irrelevant control) and eGFP was stained with Mouse Anti-Human GPR64 Monoclonal Antibody (Catalog # MAB7977) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003). View our protocol for Staining Membrane-associated Proteins.

| DDEDA | PATION | AMDST | ORAGE |
|-------|--------|-------|-------|

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

- 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

GPR64 (G-Protein coupled Receptor 64; also HE6) is a 110 kDa (predicted) member of the B class of GCPRs. Within this class GPR64 belongs to a Large N-termini family-B 7-transmembrane (LNB-7TM) subclass of receptors (also known as adhesion-GCPRs). GPR64 has restricted expression, being found in stereocilia cell membranes of epididymal caput epithelial cells and, to a limited extent, on osteoblasts. The function of GPR64 is somewhat unclear, but in the epididymis, it may be involved in fluid transport. Mature human GPR64 is a 980 amino acid (aa) 7-TM glycoprotein (SwissProt Q8IZP9). It contains an extended extracellular N-teminus (aa 38-627), seven consecutive TM segments (aa 628-878) and a C-terminal cytoplasmic tail (aa 879-1010). The extended extracellular region possesses a juxtamembrane GPS domain (aa 567-618) that serves as a proteolytic cleavage site. Enzymatic activity here generates a 180 kDa soluble form that stays associated with a 40 kDa membrane-embedded fragment. Notably, isolation of the membrane fragment gives rise to oligomers that run at > 250 kDa in SDS-PAGE. There are multiple splice variants. The one used for immunization to generate this antibody contains a deletion of aa 88-101 (RefSeq NP_001073328). Four other splice forms show single block deletions of aa 65-67, 51-66, 52-75, and 906-956, respectively. Three others possesses as auststitutions; a 20 aa block for aa 52-101, and a common 12 aa block that can substitute for either aa 68-101 or aa 52-101. Over aa 38-64 and 68-553 of RefSeq NP_001073328, human and mouse GPR64 share 69% aa sequence identity.

Rev. 6/11/2018 Page 1 of 1

