



Anti-GPR64 Monoclonal Antibody

Product Code: CABh-25391

Clone: 2D7-G7

For Research Use Only (RUO)

Alternate Names	ADGRG2, EDDM6, HE6, TM7LN2, adhesion G protein-coupled receptor G2, CBAVDX
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human G protein-coupled receptor 64 (GPR64), is a 7-transmembrane G protein-coupled receptor (GPCR). GPR64 is an orphan Class B GPCR. GPR64 has been found to be clinically significant for several cancers including overexpression in the Wnt signaling-dependent subgroup of medulloblastoma, ewing sarcomas, and carcinomas derived from endometrial tissue, prostate, kidney or lung. Human GPR64 protein has ~99% sequence homology with mouse GPR64.

Product Details

Specificity	Detects human and mouse G protein-coupled receptor 64/ GPR64 transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	GPR64 N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # Q8IZP9
Formulation / Storage buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	On receipt, store at -70 C or lower for long term storage. This product is stable at: -70 C for 6 months from date of receipt. Avoid repeated freeze-thaw cycles

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Verified Application

ELISA, Flow cytometry

Recommended Usage

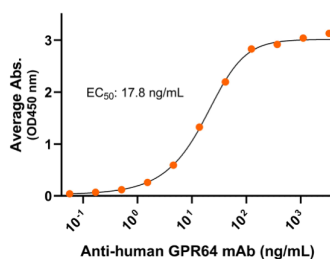
ELISA: starting concentration 1 µg/mL

Flow cytometry: 0.8 µg/1E6 cells for human targets and 2.4 µg/1E6 cells for mouse targets

Bioactive Data, Detection of Antigen by:

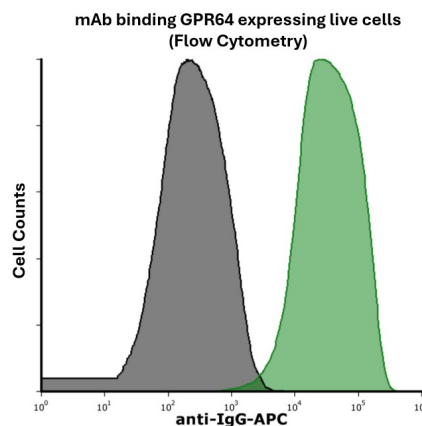
ELISA

Anti-human GPR64 Monoclonal Antibody, ELISA
0.2µg of GPR64 protein per well



Immobilized human GPR64 fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-GPR64 Monoclonal Antibody (Cat. No. CABh-25391) with half maximal effective concentration (EC50) range of 8.9-35.6 ng/mL (QC tested).

Flow Cytometry



Detection of human GPR64 in HEK293 human cell line transiently transfected with human GPR64 by Flow Cytometry. HEK293 cell line transfected with human GPR64 was stained with isotype control (black curve) or mouse Anti-GPR64 Monoclonal Antibody (Cat. No. CABh-25391) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

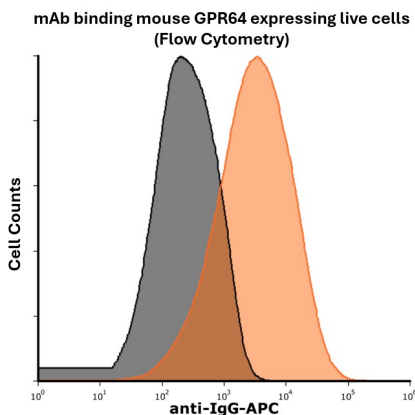
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Flow Cytometry



Detection of mouse GPR64 in HEK293 human cell line transiently transfected with mouse GPR64 by Flow Cytometry. HEK293 cell line transfected with mouse GPR64 was stained with isotype control (black curve) or mouse Anti-GPR64 Monoclonal Antibody (Cat. No. CABh-25391) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Regulation of spermatozoa maturation and rete testis fluid reabsorption
Ligand / Receptor	Unknown
Cell Type	male reproductive organs, parathyroid glands, and central nervous system
Molecular Family	G protein-coupled receptor
Gene ID	Q8IZP9