

Alternate Names	G-protein coupled receptor 52
Isotype	IgG1
Conjugate	Unconjugated
Background	Human probable G-protein coupled receptor 52 (GPR52), is a 7-transmembrane G protein-coupled receptor (GPCR). GPCR52 is an orphan GPCR. Unlike many GPCRs, GPR52 exhibits constitutive activity, meaning it can signal in the absence of a known endogenous ligand. Due to its localization and signaling properties, GPR52 has attracted interest as a potential therapeutic target for neuropsychiatric disorders such as schizophrenia and Huntington's disease.

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	GPR52 N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # Q9Y2T5
Formulation / Storage buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as a protectant
Reconstitution	For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 µg/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing. For 25µg product size: Reconstitute with 50 µL sterile deionized water. For 100µg product size: Reconstitute with 200 µL sterile deionized water.



Anti-GPR52 Monoclonal Antibody

Product Code: CABh-25349

Clone: 4A10-H6

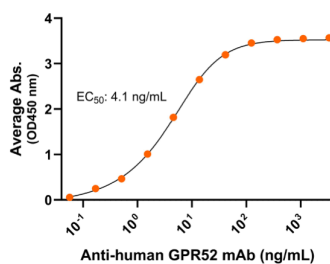
For Research Use Only (RUO)

Shipping	Product is shipped at ambient temperature.
Purification	Affinity Enrichment
Stability & Storage	On receipt, store at -20 C or lower for long term storage. This product is stable at: -20 to -70 C for 12 months from date of receipt in lyophilized state. -70 C for 3 months after reconstitution under sterile conditions. Avoid repeated freeze-thaw cycles
Verified Application	ELISA, Flow cytometry
Recommended Usage	ELISA: starting concentration 1 µg/mL Flow cytometry: 0.8 µg/1E6 cells

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human GPR52 Monoclonal Antibody, ELISA
0.2µg of GPR52 protein per well



Immobilized human GPR52 fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-GPR52 Monoclonal Antibody (Cat. No. CABh-25349) with half maximal effective concentration (EC50) range of 2-8.2 ng/mL (QC tested).

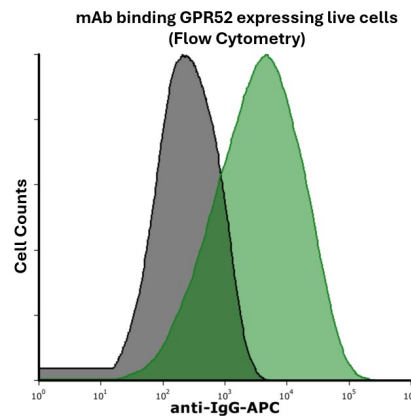
Anti-GPR52 Monoclonal Antibody

Product Code: CABh-25349

Clone: 4A10-H6

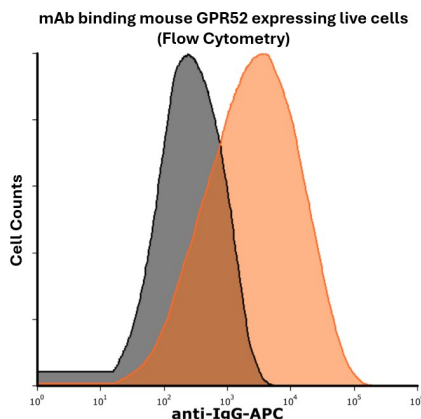
For Research Use Only (RUO)

Flow Cytometry



Detection of human GPR52 in HEK293 human cell line transiently transfected with human GPR52 by Flow Cytometry. HEK293 cell line transfected with human GPR52 was stained with isotype control (black curve) or mouse Anti-GPR52 Monoclonal Antibody (Cat. No. CABh-25349) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

Flow Cytometry



Detection of mouse GPR52 in HEK293 human cell line transiently transfected with mouse GPR52 by Flow Cytometry. HEK293 cell line transfected with mouse GPR52 was stained with isotype control (black curve) or mouse Anti-GPR52 Monoclonal Antibody (Cat. No. CABh-25349) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.



Anti-GPR52 Monoclonal Antibody
Product Code: CABh-25349
Clone: 4A10-H6
For Research Use Only (RUO)

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	controls various cyclic AMP (cAMP)-dependent physiological and pathological processes
Ligand / Receptor	Unknown
Cell Type	predominantly expressed in the brain, especially in the striatum
Molecular Family	G protein-coupled receptor
Gene ID	Q9Y2T5