Anti-Human MCHR1 Monoclonal Antibody
Product Code: CABh-25303
Clone: 1C8-E12
For Research Use Only (RUO)

Alternate Names	MCH1, GPR24, MCH-1R, MCH1R, SLC-1, SLC1
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human melanin-concentrating hormone receptor 1 (MCHR1), also known as MCH1, is a 7-transmembrane G protein-coupled receptor (GPCR). MCHR1 is a class A GPCR. The binding of melanin-concentrating hormone (MCH) to MCHR1 is involved with regulation of appetite, as well as possibly stress, anxiety and depression. MCHR1 has become a possible therapeutic target for the treatment of metabolic diseases, such as diabetes and obesity, due to its involvement in regulation of appetite. Human MCHR1 protein has >95% sequence homology with mouse MCHR1.

Product Details

Specificity	Detects human melanin-concentrating hormone receptor 1/MCHR1 transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	MCHR1 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # Q99705
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 reconsitute 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.

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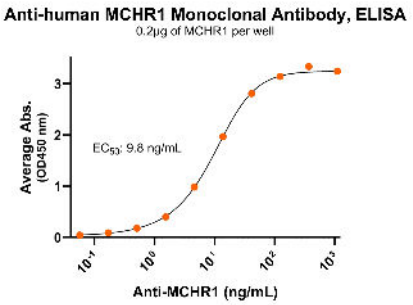
Shipping	Frozen Ice Packs
Purification	Affinity Enrichment
Stability & Storage	-20'C
Verified Application	ELISA, Flow cytometry
Recommended Usage	ELISA: starting concentration 1 µg/mL Flow cytometry: 0.8 µg/1E6 cells

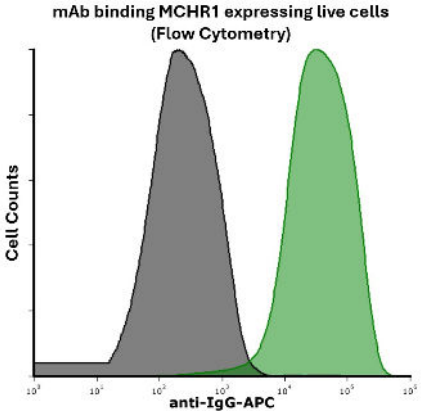
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human MCHR1 fragment at 2 µg/mL (100 µL/well) can bind Mouse Anti-Human MCHR1 Monoclonal Antibody (Cat. No. CABh-25303) with half maximal effective concentration (EC50) range of 4.9-19.6 ng/mL (QC tested).

Flow Cytometery



Detection of MCHR1 in HEK293 human cell line transiently transfected with human MCHR1 by Flow Cytometry. HEK293 cell line transfected with human MCHR1 was stained with isotype control (black curve) or Mouse Anti-Human MCHR1 Monoclonal Antibody (Cat. No. CABh-25303) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

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Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	regulation of appetite
Ligand / Receptor	melanin-concentrating hormone
Cell Type	Neuronal cells, endocrine cells, mesenchymal cells, and endothelial cells
Molecular Family	G protein-coupled receptor
Gene ID	Q99705