Anti-Human MC3R Monoclonal Antibody
Product Code: CABh-25305
Clone: 2G10-H9
For Research Use Only (RUO)

Alternate Names	BMIQ9, MC3, MC3-R, OB20, OQTL, Melanocortin 3 receptor
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human Melanocortin Receptor 3 (MC3R), is a 7-transmembrane G protein-coupled receptor (GPCR). MC3R is a Class A GPCR and is highly expressed in the hypothalamus. Melanocyte-stimulating hormone and adrenocorticotropic hormone are ligands for MC3R. MC3R is involved in regulation of energy homeostasis and mutations in the gene encoding MCR3 are associated with susceptibility to obesity. Human MCR3 protein has ~85-90% sequence homology with mouse MCR3.

Product Details

Specificity	Human
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	MC3R N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # P41968
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
Verified Application	ELISA
Recommended Usage	ELISA: starting concentration 1 µg/mL.

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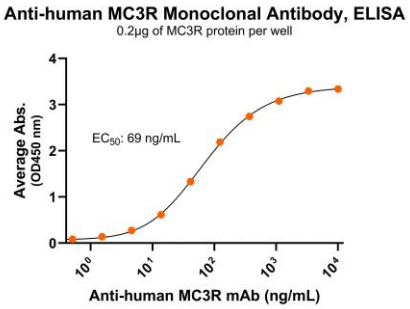
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human MC3R fragment at 2 μg/mL (100 μL/well) can bind mouse Anti-Human MC3R Monoclonal Antibody (Cat. No. CABh-25305) with half maximal effective concentration (EC50) range of 34.5-138 ng/mL (QC tested).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Regulation of energy homeostasis
Ligand / Receptor	Melanocyte-stimulating hormone and adrenocorticotropic hormone
Cell Type	Predominantly central nerve system, hypothalamus
Molecular Family	G protein-coupled receptor
Gene ID	P41968