Mouse Anti-Human DRD2 Monoclonal Antibody
Product Code: CABh-24075
Clone: 9A6-2A8
For Research Use Only (RUO)

Alternate Names	D2DR, D2R
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human dopamine receptor D2 (DRD2) is a G protein-coupled receptor (GPCR) on cell surface that inhibits adenylyl cyclase activity. DRD2 contains seven transmembrane domains and is highly expressed in the anterior pituitary gland of the brain. DRD2 is the main receptor for most antipsychotic drugs and mutations in the gene encoding DRD2 have been associated with myoclonus dystonia and schizophrenia.

Product Details

Specificity	Human Dopamine Receptor D2 / DRD2
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	DRD2, Asp2-Tyr37; UniProt # P14416
Formulation / Storage buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	-80'C
Verified Application	ELISA, Flow cytometry, LSPR
Recommended Usage	ELISA: starting concentration 1 μg/mL. Flow cytometry: 0.5 μg/1E6 cells LSPR: Recommended maximum concentration, 100 nM

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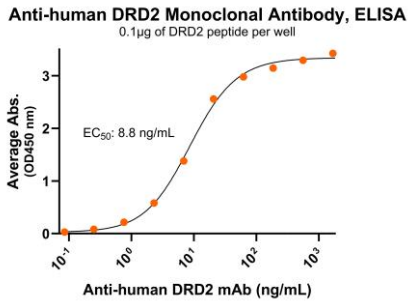
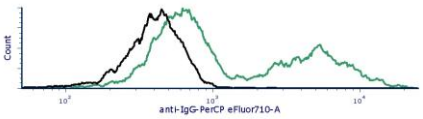
Bioactive Data, Detection of Antigen by:

ELISA



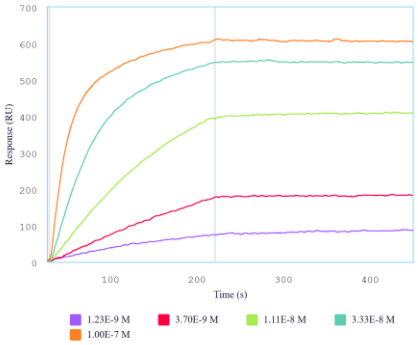
Immobilized human DRD2 peptide at 1 µg/mL (100 µL/well) can bind Mouse Anti-Human DRD2 Monoclonal Antibody (Cat. No. CABh-24075) with half maximal effective concentration (EC50) range of 4.4-17.5 ng/mL (QC tested).

Flow Cytometery



Detection of DRD2 in HEK293 human cell Line transiently transfected with human DRD2 by Flow Cytometry. HEK293 cell line transfected with human DRD2 (green curve) or mock (black curve was stained with Mouse Anti-Human DRD2 Monoclonal Antibody (Catalog # CABh-24075) by PerCP-conjugated Anti-Mouse IgG Secondary Antibody.

SPR



Immobilized human DRD2 peptide can bind Mouse Anti-Human DRD2 Monoclonal Antibody (Cat. No. CABh-24075) with a KD of 0.1-0.4 nM as determined by LSPR (Nicoya Alto).

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Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Inhibit adenylyl cyclase activity
Ligand / Receptor	EPB41L1, PPP1R9B, NCS-1
Cell Type	Anterior pituitary gland
Molecular Family	G protein-coupled receptor
Gene ID	P14416