
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	Detects human Dopamine Receptor D2/DRD2 transfectants but not irrelevant transfectants in flow cytometry. Does not detect mouse DRD2 transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	DRD2 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P14416
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-DRD2 Monoclonal Antibody

Product Code: CABh-24075

Clone: 9A6-2A8

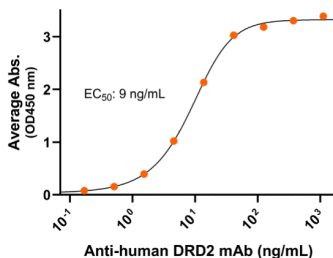
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Shipping	Product is shipped at ambient temperature.
Purification	Affinity Enrichment
Stability & Storage	On receipt, store at -20 C or lower for long term storage. This product is stable at: -20 to -70 C for 12 months from date of receipt in lyophilized state. -70 C for 3 months after reconstitution under sterile conditions. Avoid repeated freeze-thaw cycles
Verified Application	ELISA, Flow cytometry, LSPR
Recommended Usage	ELISA: starting concentration 1 µg/mL. Flow cytometry: 0.8 µg/1E6 cells LSPR: Recommended maximum concentration, 100 nM

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human DRD2 Monoclonal Antibody, ELISA
0.2µg of DRD2 peptide per well



Immobilized human DRD2 peptide at 1 µg/mL (100 µL/well) can bind mouse Anti-DRD2 Monoclonal Antibody (Cat. No. CABh-24075) with half maximal effective concentration (EC₅₀) range of 4.5-18 ng/mL (QC tested).

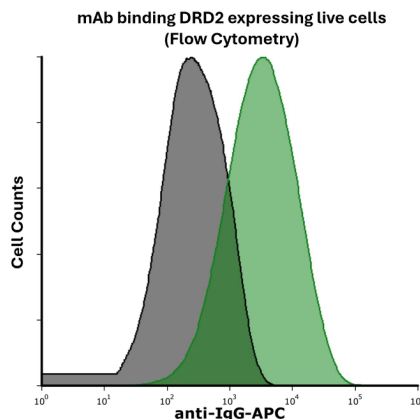
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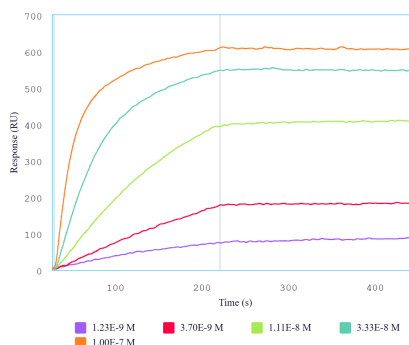
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Flow Cytometry



Detection of DRD2 in HEK293 human cell line transiently transfected with human DRD2 by Flow Cytometry. HEK293 cell line transfected with human DRD2 was stained with isotype control (black curve) or mouse Anti-DRD2 Monoclonal Antibody (Cat. No. CABh-24075) (green curve) by APC-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).

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



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