
Alternate Names	ABCDS, ET-B, ET-BR, ETB, ETBR, ETRB, HSCR, HSCR2, WS4A, ETB1
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human endothelin receptor type B (EDNRB) is a 7-transmembrane G protein-coupled receptor (GPCR). EDNRB is a class A GPCR. EDNRB interacts with endothelins (ET-1, ET-2, ET-3), vasoactive peptides involved in cell proliferation, migration, and immune regulation. It can regulate critical biological processes such as the development and function of blood vessels, hormone production, and the stimulation of cell growth and proliferation. In cancer, EDNRB expression is often dysregulated and can act as a tumor suppressor or, in some contexts, contribute to tumor progression. EDNRB has been found to be a prognostic marker in kidney renal clear cell carcinoma and lung squamous cell carcinoma. Human EDNRB protein has >80% sequence homology with mouse EDNRB.

Product Details

Specificity	Detects human endothelin receptor type B/EDNRB transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	EDNRB N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P24530
Formulation / Storage buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as protectant



Anti-Human EDNRB Monoclonal Antibody

Product Code: CABh-25398

Clone: 1D2-G2

For Research Use Only (RUO)

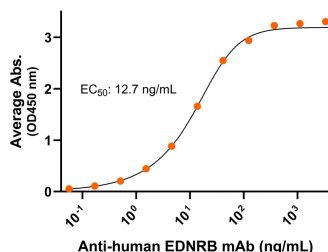
Reconstitution	For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 µg/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing. For 25µg product size: Reconstitute with 50 µL sterile deionized water. For 100µg product size: Reconstitute with 200 µL sterile deionized water.
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

Anti-human EDNRB Monoclonal Antibody, ELISA

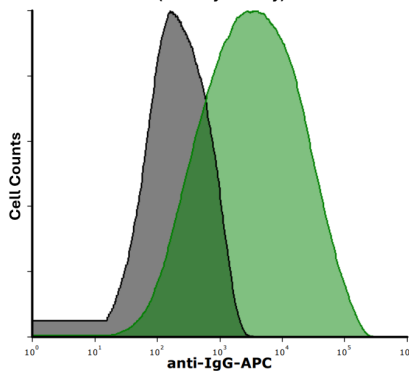
0.2µg of EDNRB protein per well



Immobilized human EDNRB fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-Human EDNRB Monoclonal Antibody (Cat. No. CABh-25398) with half maximal effective concentration (EC₅₀) range of 6.3-25.4 ng/mL (QC tested).

Flow Cytometry

mAb binding EDNRB expressing live cells (Flow Cytometry)



Detection of EDNRB in HEK293 human cell line transiently transfected with human EDNRB by Flow Cytometry. HEK293 cell line transfected with human EDNRB was stained with isotype control (black curve) or mouse Anti-Human EDNRB Monoclonal Antibody (Cat. No. CABh-25398) (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	activates phosphatidylinositol-calcium second messenger system
Ligand / Receptor	endothelins
Cell Type	various tissues, especially placental cells
Molecular Family	G protein-coupled receptor
Gene ID	P24530