

Alternate Names	Cluster of differentiation 312, CD312, VBU, EMR2, EGF-like module-containing mucin-like hormone receptor-like 2, EMR2
Isotype	IgG1
Conjugate	Unconjugated
Background	Human adhesion G protein-coupled receptor E2 (ADGRE2) is a 7-transmembrane G protein-coupled receptor (GPCR). ADGRE2 is a class B GPCR. ADGRE2 is mainly expressed on myeloid cells and binding to its ligand chondroitin sulfate B promotes cell attachment. High expression of ADGRE2 in acute myeloid leukemia is associated with poor patient outcomes. Human ADGRE2 protein has >95% sequence homology with mouse ADGRE2.

Product Details

Specificity	Detects human adhesion G protein-coupled receptor E2/ADGRE2 transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	ADGRE2 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # Q9UHX3
Formulation / Storage buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as 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-Human ADGRE2 Monoclonal Antibody

Product Code: CABh-25389

Clone: 1E5-F4

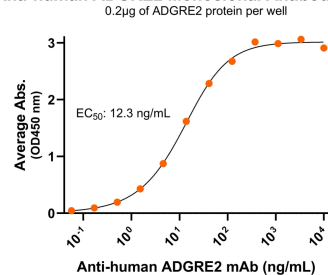
For Research Use Only (RUO)

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:

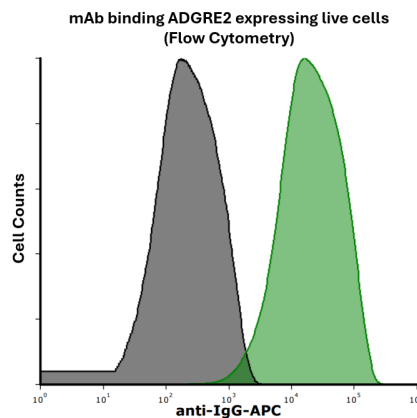
ELISA

Anti-human ADGRE2 Monoclonal Antibody, ELISA



Immobilized human ADGRE2 fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-Human ADGRE2 Monoclonal Antibody (Cat. No. CABh-25389) with half maximal effective concentration (EC50) range of 6.2-24.6 ng/mL (QC tested).

Flow Cytometry



Detection of ADGRE2 expressed on HEK293 cell surface transiently transfected with full-length human ADGRE2 by Flow Cytometry. HEK293 cell line transfected with human ADGRE2 was stained with isotype control (black curve) or mouse Anti-Human ADGRE2 Monoclonal Antibody (Cat. No. CABh-25389) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	promotes cell-cell adhesion
Ligand / Receptor	chondroitin sulfate B
Cell Type	monocytes/macrophages, dendritic cells and all types of granulocytes
Molecular Family	G protein-coupled receptor
Gene ID	Q9UHX3