

Alternate Names	CRHR2, CRF-RB, CRF2, HM-CRF
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human corticotropin-releasing hormone receptor 2 (CRFR2), is a 7-transmembrane G protein-coupled receptor (GPCR). CRFR2 is a Class B GPCR that binds corticotropin-releasing hormone (CRH) to promote the activation of adenylate cyclase, leading to increased intracellular cAMP levels. It has been found that CRFR2 is a critical component of a pathway necessary for tonic inhibition of adult neovascularization, making CRFR2 a potential therapeutic target for modulation of angiogenesis in cancer and ischaemic cardiovascular disease. Human CRFR2 protein has >90% sequence homology with mouse CRFR2.

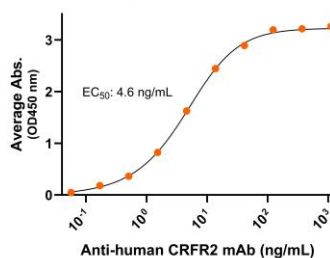
Product Details

Specificity	Detects human corticotropin-releasing hormone receptor 2/CRFR2 transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	CRFR2 N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # Q13324
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
Recommended Usage	ELISA: starting concentration 1 µg/mL Flow cytometry: 0.8 µg/1E6 cells

Bioactive Data, Detection of Antigen by:

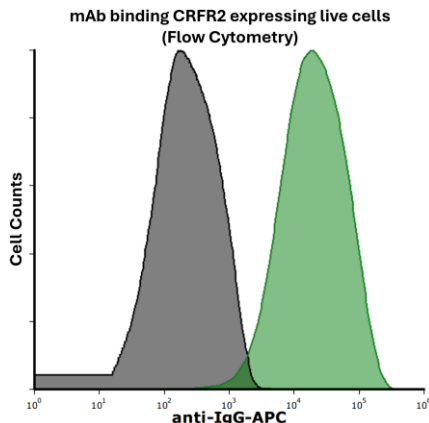
ELISA

Anti-human CRFR2 Monoclonal Antibody, ELISA
 0.2 µg of CRFR2 protein per well



Immobilized human CRFR2 fragment at 2 µg/mL (100 µL/well) can bind mouse Anti-Human CRFR2 Monoclonal Antibody (Cat. No. CABh-25328) with half maximal effective concentration (EC₅₀) range of 2.3-9.2 ng/mL (QC tested).

Flow Cytometry



Detection of CRFR2 expressed on HEK293 cell surface transiently transfected with full-length human CRFR2 by Flow Cytometry. HEK293 cell line transfected with human CRFR2 was stained with isotype control (black curve) or mouse Anti-Human CRFR2 Monoclonal Antibody (Cat. No. CABh-25328) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	determines tissue vascularization
Ligand / Receptor	corticotropin-releasing hormone (CRH)
Cell Type	Multiple cell types including neurons, endothelial and smooth muscle cells
Molecular Family	G protein-coupled receptor
Gene ID	Q13324