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<b>Alternate Names</b>	CALCRL, CGRPR, CRLR, LMPHM8
<b>Isotype</b>	IgG2a
<b>Conjugate</b>	Unconjugated
<b>Background</b>	<p>Human calcitonin receptor-like receptor (CALRL), is a 7-transmembrane G protein-coupled receptor (GPCR). It is a Class B GPCR that plays a critical role in cardiovascular, lymphatic, and nervous system physiology. Unlike many GPCRs, CALRL requires association with receptor activity-modifying proteins (RAMPs) to determine its ligand specificity and functional identity. Upon ligand binding, CALRL primarily activates guanine nucleotide-binding proteins (G proteins), leading to increased intracellular cyclic AMP (cAMP) levels and downstream signaling cascades. These pathways influence processes such as vasodilation, cell proliferation, and fluid homeostasis. Clinically, CALRL is significant due to its involvement in diseases like migraine, cardiovascular disorders, and cancer. CGRP receptor antagonists targeting the CALRL-RAMP1 complex have become effective therapies for migraine treatment. Additionally, dysregulation of adrenomedullin signaling through CALRL has been linked to tumor progression and poor prognosis in certain cancers. Human CALRL protein has ~90% sequence homology with mouse CALRL.</p>

## Product Details

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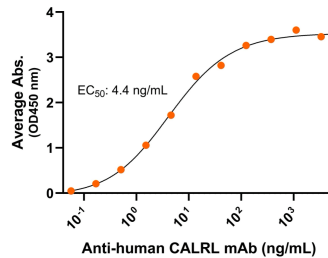
<b>Specificity</b>	Detects human calcitonin receptor-like receptor/CALRL transfectants but not irrelevant transfectants in flow cytometry.
<b>Antibody Type</b>	Monoclonal antibody
<b>Host Species</b>	Mouse
<b>Immunogen</b>	CALRL N-terminus extracellular domain, the exact sequence of the immunogen is proprietary.; UniProt # Q16602
<b>Formulation / Storage buffer</b>	0.22µm filtered PBS, pH 7.4
<b>Shipping</b>	Frozen Dry Ice
<b>Purification</b>	Affinity Purification

<b>Stability &amp; Storage</b>	-80°C
<b>Verified Application</b>	ELISA, Flow Cytometry
<b>Recommended Usage</b>	ELISA: starting concentration 1 µg/mL. Flow cytometry: 0.8 µg/1E6 cells

## Bioactive Data, Detection of Antigen by:

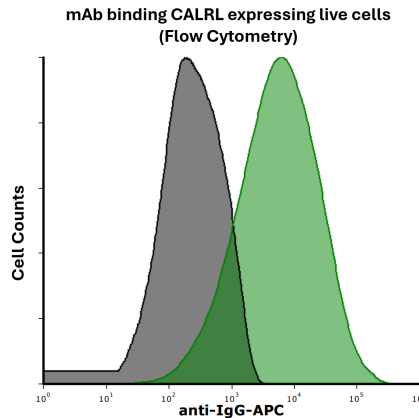
### ELISA

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



Immobilized human CALRL fragment at 2 µg/mL (100 µL/well) can bind Mouse Anti-Human CALRL Monoclonal Antibody (Cat. No. CABh-25327) with half maximal effective concentration (EC50) range of 2.2-8.8 ng/mL (QC tested).

### Flow Cytometry



Detection of CALRL in HEK293 human cell line transiently transfected with human CALRL by Flow Cytometry. HEK293 cell line transfected with human CALRL was stained with isotype control (black curve) or Mouse Anti-Human CALRL Monoclonal Antibody (Cat. No. CABh-25327) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.



## Anti-Human CALRL Monoclonal Antibody

Product Code: CABh-25327

Clone: 6B1-3(A8)

For Research Use Only (RUO)

### Antigen Details

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<b>Structure</b>	7-transmembrane protein, G protein-coupled receptor (GPCR)
<b>Function</b>	Mainly in vascular biology + neuropeptide signaling
<b>Ligand / Receptor</b>	Calcitonin Gene-Related Peptide (CGRP)
<b>Cell Type</b>	Wide distribution, especially cardiovascular, lymphatic, and nervous system
<b>Molecular Family</b>	G protein-coupled receptor
<b>Gene ID</b>	Q16602