Mouse RAMP2
Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 773816

Catalog Number: FAB6500T

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse RAMP2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human RAMP2 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 773816
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse RAMP2 Ser45-Val159 Accession # Q9WUP0
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	bEnd.3 mouse endothelioma cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

RAMP2 (receptor activity modifying protein 2) is a 20 kDa member of the RAMP family of proteins. It is expressed on cardiomyocytes, vascular smooth muscle cells and endothelium and interacts with CRLR to form a receptor complex for adrenomedullin (AM). AM induces vasodilation on AM1 receptor expressing cells. Mature mouse RAMP2 is a 145 amino acid (aa) type I transmembrane glycoprotein that contains a 115 aa extracellular domain (ECD) (aa 45-159) and a nine aa cytoplasmic region. Although the ECD contains no typical structural motifs, based on human, aa 100-106 are critical for AM binding. Over aa 45-159, mouse RAMP2 shares 57% and 83% aa identity with human and rat RAMP2, respectively.

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