Human MRGX2
Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 477533

Catalog Number: IC4727T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MRGX2. Stains human MRGX2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2A} Clone # 477533
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human MRGX2 Met1-Val330 Accession # Q96LB1
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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	HEK293 human embryonic kidney cell line transfected with human MRGX2

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

MRGX2 (MAS-related GPR, member X2) is a 330 amino acid (aa) G-protein coupled 7-transmembrane protein that is selectively expressed in small-diameter sensory neurons of dorsal root ganglia. Human MRGX shares 41-52% aa identity with three other primate MRGX proteins, but has no ortholog in rodents. Binding of ligands such as cortistatin, proadrenomedullin peptides (PAMP-12 and –20) and basic peptides (substance P, neuropeptide Y) to MRGX2 can activate Gq or Gi regulated pathways. MRGX2 is thought to influence nociception and promote adrenal gland catecholamine secretion and IgE-independent mast cell degranulation.

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