

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MRGX2. Stains human MRGX2 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 477533
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human MRGX2 Met1-Val330 Accession # Q96LB1
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HEK293 human embryonic kidney cell line transfected with human MRGX2

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**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. 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.

**PRODUCT SPECIFIC NOTICES**

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