

DESCRIPTION

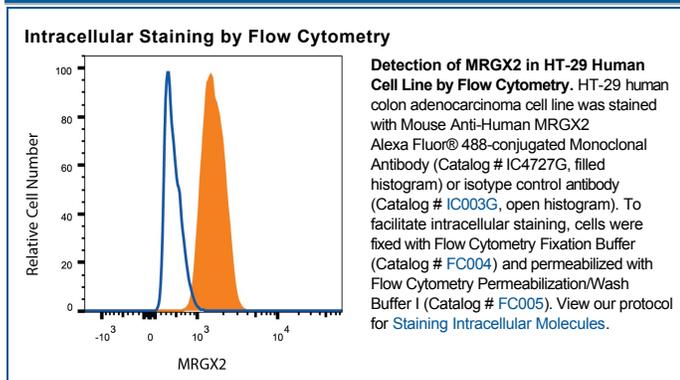
Species Reactivity	Human
Specificity	Detects human MRGX2. Stains human MRGX2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 477533
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human MRGX2 Met1-Val330 Accession # Q96LB1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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	See Below

DATA



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. <ul style="list-style-type: none"> 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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