

Human Neuromedin B R/NMBR Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 466505

Catalog Number: IC4728G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neuromedin B R/NMBR. Stains human Neuromedin B R/NMBR transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 466505
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human NMBR Met1-Met390 Accession # AAB27330
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	HT-29 human colon adenocarcinoma cell line fixed with paraformaldehyde and permeabilized with saponin

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

Neuromedin B Receptor (NMBR) is an 80 kDa, 390 amino acid (aa) G-protein coupled 7-transmembrane glycoprotein receptor for bombesin-like peptides, binding Neuromedin B with high affinity and GRP (gastrin releasing peptide) with lower affinity. Neuromedin B R expression in the olfactory and central thalamic regions of the brain plays a role in thermoregulation. It has also been shown to be mitogenic in colonic epithelium. Expression in the pituitary gland is important for regulation of the pituitary-thyroid axis. Within extracellular domains, human Neuromedin B R shares 86% and 82% aa identity with mouse and rat Neuromedin B R, respectively.

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