

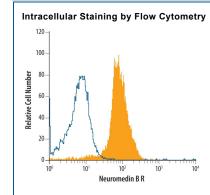
Human Neuromedin BR/NMBR Antibody

Monoclonal Mouse IgG_{2A} Clone # 466505 Catalog Number: MAB4728

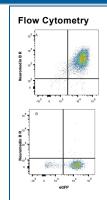
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Neuromedin B R/NMBR. Stains human Neuromedin B R/NMBR transfectants but not irrelevant transfectants.		
Source	Monoclonal Mouse IgG _{2A} Clone # 466505		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	NS0 mouse myeloma cell line transfected with human NMBR Met1-Met390 Accession # AAB27330		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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 µg/10 ⁶ cells	See Below	
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.		

DATA



Detection of Neuromedin B R/
NMBR in HT-29 Human Cell Line by
Flow Cytometry. HT-29 human colon
adenocarcinoma cell line was stained
with Mouse Anti-Human
Neuromedin B R/NMBR Monoclonal
Antibody (Catalog # MAB4728, filled
histogram) or isotype control antibody
(Catalog # MAB003, open histogram),
followed by Allophycocyanin-conjugated
Anti-Mouse IgG F(ab')₂ Secondary
Antibody (Catalog # F0101B). To
facilitate intracellular staining, cells
were fixed with paraformaldehyde and
permeabilized with saponin.



Detection of Neuromedin B R/NMBR in HEK293 Human Cell Line Transfected with Human Neuromedin B R/NMBR and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) Neuromedin B R/NMBR or (B) irrelevant protein and eGFP was stained with Mouse Anti-Human Neuromedin B R/NMBR Monoclonal Antibody (Catalog # MAB4728) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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% as identity with mouse and rat Neuromedin B R, respectively.

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