Human NHA2/SLC9B2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 896151

Catalog Number: MAB8404

DESCRIPTION

Species Reactivity	Human
Specificity	Detects HEK293 cells transfected with human NHA2/SLC9B2 by Flow Cytometry. Does not detect untransfected or irrelevant transfected HEK293 cells.
Source	Monoclonal Mouse IgG_{2B} Clone # 896151
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human NHA2/SLC9B2 Met1-Val537 Accession # NP_849155
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.

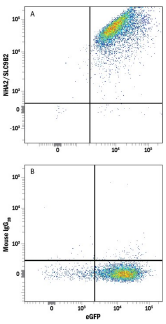
APPLICATIONS

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
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of NHA2/SLC9B2 in HEK293 Human Cell Line Transfected with Human NHA2/SLC9B2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human NHA2/SLC9B2 and eGFP was stained with and either (A) Mouse Anti-Human NHA2/SLC9B2 Monoclonal Antibody (Catalog # MAB8404) or (B) Mouse IgG_{2B} Flow Cytometry Isotype Control (Catalog # MAB0041) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).

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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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

NHA2/SLC9B2 (Solute Carrier family 9, subfamily B, member 2) is a member of the solute carrier family of multi-pass membrane proteins. Sodium hydrogen antiporters, such as SLC9B2 (NHA2), convert the proton motive force established by the respiratory chain or the F1F0 mitochondrial ATPase into sodium gradients that drive other energy-requiring processes, transduce environmental signals into cell responses, or function in drug efflux. SLC9B2 contributes to organellar volume homeostasis and is required for osteoclast differentiation and bone resorption activity.

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