

Human NRAMP1/SLC11A1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 910825 Catalog Number: MAB8400

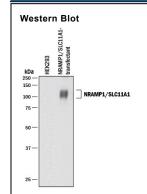
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects HEK293 human embryonic kidney cell line transfected with human NRAMP1/SLC11A1 by Flow Cytometry. Does not detect untransfected or irrelevant transfected HEK293 cells.		
Source	Monoclonal Mouse IgG _{2B} Clone # 910825		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	NS0 mouse myeloma cell line transfected with human NRAMP1/SLC11A1 Met1-Gly550 Accession # NP_000569		
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

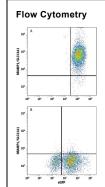
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
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 Human NRAMP1/SLC11A1 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected or transfected with human NRAMP1/SLC11A1. PVDF membrane was probed with 1 μg/mL of Mouse Anti-Human NRAMP1/SLC11A1 Monoclonal Antibody (Catalog # MAB8400) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for NRAMP1/SLC11A1 at approximately 90-120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of NRAMP1/SLC11A1 in HEK293 Human Cell Line Transfected with Human NRAMP1/SLC11A1 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human NRAMP1/SLC11A1 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human NRAMP1/SLC11A1 Monoclonal Antibody (Catalog # MAB8400) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041).

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

NRAMP1/SLC11A1 (Natural Resistance-Associated Macrophage Protein 1/Solute Carrier family 11, member 1) is a member of the solute carrier family of multi-pass membrane proteins. It functions as a proton-coupled divalent transition metal (iron and manganese) transporter involved in iron metabolism and host resistance to certain pathogens. Mutations in SLC11A1 have been associated with susceptibility to infectious diseases such as tuberculosis and leprosy, and inflammatory diseases such as rheumatoid arthritis and Crohn's disease. Alternatively spliced variants that encode different protein isoforms have been described.

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