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NRAMP1 Rabbit pAb

Catalog # AP98007

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P49279
Other Accession	P49279
Reactivity	Rat
Predicted	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59872
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NRAMP1
Epitope Specificity	371-470/550
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the NRAMP family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the solute carrier family 11 (proton-coupled divalent metal ion transporters) family and encodes a multi-pass membrane protein. The protein functions as a divalent transition metal (iron and manganese) transporter involved in iron metabolism and host resistance to certain pathogens. Mutations in this gene have been associated with susceptibility to infectious diseases such as tuberculosis and leprosy, and inflammatory diseases such as rheumatoid arthritis and Crohn disease. Alternatively spliced variants that encode different protein isoforms have been described but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	6556
Other Names	LSH; NRAMP; NRAMP1; Bcg; Ity; Ity1; Itg; NRAM1_HUMAN; SLC11A1; NRAMP 1; Solute carrier family 11 member 1; NRAM1_MOUSE; NRAM1_RAT; solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1; Leishmaniasis resistance; natural resistance-associated macrophage protein 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC11A1 {ECO:0000303|PubMed:16395392, ECO:0000312|HGNC:HGNC:10907}
Function	Antiporter that transports metal ions against a proton gradient, and which promotes host resistance to infection against intracellular parasites, such as M.bovis, S.typhimurium and L.donovani (PubMed:11237855, PubMed:16103355, PubMed:16395392, PubMed:39824808). Plays a key role in pathogen resistance in macrophages by mediating the export of metal ions from the phagosomal compartment, thereby limiting the nutrients available to intracellular pathogens and restricting their growth (By similarity). Also promotes antimicrobial activity in neutrophils against pathogens that survive within phagocytic cells (By similarity).
Cellular Location	Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:P41251}; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Note=After onfection, vesicles migrate to the site of bacterial phagosomes. {ECO:0000250|UniProtKB:P41251}
Tissue Location	Macrophages; peripheral blood leukocytes, lung, spleen and liver.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.