

Human Natural Resistance-Associated Macrophage Protein 2 (SLC11A2) ELISA Kit | SLC11A2 elisa kit

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CATALOG #
AAA330841

REACTIVITY
Human

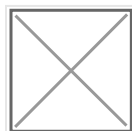
PRODUCT SYNONYMS

Natural Resistance-Associated Macrophage Protein 2 (SLC11A2); Human Natural Resistance-Associated Macrophage Protein 2 (SLC11A2) ELISA Kit; DCT1; DMT1; FLJ37416; NRAMP2; natural resistance-associated macrophage protein 2; SLC11A2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Natural resistance-associated macrophage protein 2 (SLC11A2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC11A2. No significant cross-reactivity or interference between Human SLC11A2 and analogues was observed.
Sequence Length	561
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Natural resistance-associated macrophage protein 2 (SLC11A2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC11A2 elisa kit	Description: This Human Natural resistance-associated macrophage protein 2 (SLC11A2) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC11A2 in samples. An antibody specific for SLC11A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC11A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC11A2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC11A2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The SLC11A2 gene encodes a divalent metal transporter (DMT1), which carries iron, manganese, cobalt, nickel, cadmium, lead, copper, and zinc. DMT1 participates in cellular iron absorption at the luminal surface of the duodenum as well as in other areas of the body. Predicted amino acid sequence analysis of the NRAMP2 polypeptide identified a polytopic membrane protein highly homologous to human NRAMP1, with 66% identical residues (80% overall homology), resulting in identical predicted secondary structure of the 2 proteins. Sequence conservation is particularly high in the predicted transmembrane domains (90%), suggesting that these regions play a key role in the structural and functional aspects common to both proteins. As opposed to its NRAMP1 counterpart, whose expression is restricted to phagocytic cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835169
NCBI GeneID	4891
NCBI Accession #	NP_000608.1
NCBI GenBank Nucleotide #	NP_000608.1
UniProt Accession #	P49281
NCBI Official Full Name	natural resistance-associated macrophage protein 2 isoform 3
NCBI Official Synonym Full Names	solute carrier family 11 member 2
NCBI Official Symbol	SLC11A2
NCBI Official Synonym Symbols	DCT1; DMT1; AHMIO1; NRAMP2
NCBI Protein Information	natural resistance-associated macrophage protein 2
UniProt Protein Name	Natural resistance-associated macrophage protein 2
UniProt Gene Name	SLC11A2
UniProt Synonym Gene Names	DCT1; DMT1; NRAMP2; NRAMP 2; DMT-1
UniProt Entry Name	NRAM2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.