

# Product Information

## MemDX™ Membrane Protein Human SLC11A1 (Solute carrier family 11 member 1) for Antibody Discovery

Cat. No.: **MP1143X**

This product is for research use only and is not intended for diagnostic use.

This product is a 45.6 kDa Human SLC11A1 membrane protein expressed in *In vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

SLC11A1

#### Protein Length

Full-length

#### Molecular Weight

45.6 kDa

#### TMD

12

#### Sequence

MTGDKGPQRLSGSSYGSISSPTSPTSPGPQQAPPRETYLRNIESDLQAGAVAGFKLLWVLLWATVLGLLCQRLAARLGVVTGKDL

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Protein Format

Liposome

#### Form

Liquid

### **Purification**

Glutathione Sepharose 4 Fast Flow

### **Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

### **Storage**

Store at +4°C for up to one week or several months at -80°C

## **Target**

### **Target Protein**

SLC11A1

### **Full Name**

Solute carrier family 11 member 1

### **Introduction**

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.

### **Alternative Names**

LSH; NRAMP; NRAMP1; natural resistance-associated macrophage protein 1; NRAMP 1; solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1; solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1; solute carrier family 11 (sodium/phosphate symporters), member 1

### **Gene ID**

[6556](#)

### **UniProt ID**

[P49279](#)