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Product Information

MemDX™ Membrane Protein Human SLC17A4 (Solute carrier family 17 member 4) for Antibody Discovery

Cat. No.: **MP1153X**
This product is for research use only and is not intended for diagnostic use.

This product is a 80.5 kDa Human SLC17A4 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
SLC17A4

Protein Length
Full-length

Molecular Weight
80.5 kDa

TMD
10

Sequence
MSTGPDVKATVGDISSDGNLNVAQEECSRKGFCSVRHGLALILQLCNFSIYTQQMNLSIAIPAMVNNTAPPSQPNASTERPSTDSQ

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

SLC17A4

Full Name

Solute carrier family 17 member 4

Introduction

Phosphate homeostasis is maintained by regulating intake, intestinal absorption, bone deposition and resorption, and renal excretion of phosphate. The central molecule in the control of phosphate excretion from the kidney is the sodium/phosphate cotransporter NPT1 (SLC17A1; MIM 182308), which is located in the renal proximal tubule. NPT1 uses the transmembrane electrochemical potential gradient of sodium to transport phosphate across the cell membrane. SLC17A4 is a similar sodium/phosphate cotransporter in the intestinal mucosa that plays an important role in the absorption of phosphate from the intestine.

Alternative Names

KAIA2138; probable small intestine urate exporter; Na/PO4 cotransporter; putative small intestine sodium-dependent phosphate transport protein; solute carrier family 17 (sodium phosphate), member 4

Gene ID

10050

UniProt ID

Q9Y2C5

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