

Product Information

MemDX™ Membrane Protein Human SLC6A19 (Solute carrier family 6 member 19) for Antibody Discovery

Cat. No.: **MP1257X**

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

This product is a 97.5 kDa Human SLC6A19 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

SLC6A19

Protein Length

Full-length

Molecular Weight

97.5 kDa

TMD

12

Sequence

MVRLVLPNPGLDARIPSLAELETIEQEEASSRPKWDNKAQYMLTCLGFCVGLGNVWRFPYLCQSHGGGAFMIPFLILLVLEGIPLLYL

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

SLC6A19

Full Name

Solute carrier family 6 member 19

Introduction

This gene encodes a system B(0) transmembrane protein that actively transports most neutral amino acids across the apical membrane of epithelial cells. Mutations in this gene may result in Hartnup disorder, an inherited disease with symptoms such as pellagra, cerebellar ataxia, and psychosis. The expression and function of B0AT1 (SLC6A19) in intestinal cells depends on the presence of the accessory protein angiotensin-converting enzyme 2 (ACE2) which, among other functions, acts as a chaperone for membrane trafficking of B0AT1. The ACE2 is also the cellular receptor for severe acute respiratory syndrome-coronavirus (SARS-CoV) and for SARS-CoV-2 that is causing the coronavirus 2019 (COVID-19) pandemic.

Alternative Names

HND; B0AT1; sodium-dependent neutral amino acid transporter B(0)AT1; sodium-dependent amino acid transporter system B0; solute carrier family 6 (neurotransmitter transporter), member 19; solute carrier family 6 (neutral amino acid transporter), member 19; system B(0) neutral amino acid transporter AT1; system B0 neutral amino acid transporter

Gene ID

[340024](#)

UniProt ID

[Q695T7](#)