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Product Information

MemDX™ Membrane Protein Human SLC17A7 (Solute carrier family 17 member 7) for Antibody Discovery

Cat. No.: **MP1154X**
This product is for research use only and is not intended for diagnostic use.

This product is a 88.1 kDa Human SLC17A7 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
SLC17A7

Protein Length
Full-length

Molecular Weight
88.1 kDa

TMD
12

Sequence
MEFRQEEFRKLAGRALGKLHRLLEKRQEGAETLELSADGRPVTTQTRDPPVVDCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIV

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

SLC17A7

Full Name

Solute carrier family 17 member 7

Introduction

The protein encoded by this gene is a vesicle-bound, sodium-dependent phosphate transporter that is specifically expressed in the neuron-rich regions of the brain. It is preferentially associated with the membranes of synaptic vesicles and functions in glutamate transport. The protein shares 82% identity with the differentiation-associated Na-dependent inorganic phosphate cotransporter and they appear to form a distinct class within the Na+/Pi cotransporter family.

Alternative Names

BNPI; VGLUT1; vesicular glutamate transporter 1; brain-specific Na(+)-dependent inorganic phosphate cotransporter; brain-specific Na-dependent inorganic phosphate cotransporter; solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7;solute carrier family 17 (vesicular glutamate transporter), member 7

Gene ID

57030

UniProt ID

Q9P2U7

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