

Product Information

MemDX™ Membrane Protein Human STX1A (Syntaxin 1A) Full Length

Cat. No.: **MPC1048K**

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

This product is a 33 kDa Human STX1A membrane protein expressed in HEK293. 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

STX1A

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

33 kDa

TMD

1

Sequence

MKDRTQELRTAKDSDDDDDVAVTVDRDRFMDEFFEQVEEIRGFIDKIAEN
VEEVKRKHSAILASPNPDEKTKEELEELMSDIKKTANKVRSKLKSIEQSI
EQEEGLNRSSADLRIRKTQHSTLSRKFVEVMSEYNATQSDYRERCKGRIQ
RQLEITGRTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRHS
EIIKLENSIRELHDMFMDMAMLVESQGEMIDRIEYNVEHAVDYVERAVSD
TKKAVKYQSKARRKKIMIIICCVILGIVIASTVGGIFA

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

STX1A

Full Name

Syntaxin 1A

Introduction

This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

STX1A; STX1; HPC-1; P35-1; SYN1A; syntaxin-1A; neuron-specific antigen HPC-1; syntaxin 1A (brain); Syntaxin 1A

Gene ID

[6804](#)

UniProt ID

[Q16623](#)