

# 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  
EQEEGLNRSSADLRIRKTQHSTLSRKFFVEVMSEYNATQSDYRERCKGRIQ  
RQLEITGRITTTSEELEDMLSEGNPAIFASGIIMDSSISKQALSEIETRHS  
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](#)