

## Product Information

### MemDX™ Membrane Protein Human SPACA1 (Sperm acrosome associated 1) Full Length

Cat. No.: **MPC4634K**

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

This product is a made-to-order Human SPACA1 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

SPACA1

##### Protein Length

Full length

##### Protein Class

Receptor

##### TMD

1

##### Sequence

MSPRGTGCSAGLLMTVGWLLLAGLQSARGTNVTA AVQDAGLAHEGEGEEE  
TENNDSETAENYAPPETEDVSNRNVVKEVEFGMCTVTCGIGVREVILTNG  
CPGGESKCVVRVEECRGPTDCGWGKPISESLESVRLACIHTSPLNRFKYM  
WKLLRQDQQSIILVNDSAILEVRKESHPLAFECDTLNNEIVATIKFTVY  
TSSELQMRRSSLPATDAALIFVLTIGVIICVFIIFLLIFIIINWAAVKAF  
WGAKASTPEVQSEQSSVRYKDSTSLDQLPTMPGEDDALSEWNE

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

##### Form

Liquid

## Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

SPACA1

### Full Name

Sperm acrosome associated 1

### Introduction

The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role for these antibodies in blocking fertilization. Improved diagnosis and treatment of immunologic infertility, as well as identification of proteins for targeted contraception, are dependent on the identification and characterization of relevant sperm antigens. The protein expressed by this gene is recognized by anti-sperm antibodies from infertile males. Furthermore, antibodies generated against the recombinant protein block *in vitro* fertilization. This protein localizes to the acrosomal membrane of spermatids and mature spermatozoa where it is thought to play a role in acrosomal morphogenesis and in sperm-egg binding and fusion, respectively.

### Alternative Names

SPACA1; SAMP32; sperm acrosome membrane-associated protein 1; sperm acrosomal membrane-associated protein 32; Sperm acrosome associated 1

### Gene ID

[81833](#)

### UniProt ID

[Q9HBV2](#)