

Product Information

MemDX™ Membrane Protein Human SPACA1 (Sperm acrosome associated 1) for Antibody

Discovery

Cat. No.: **MP1284X**

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

This product is a 58.5 kDa Human SPACA1 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

SPACA1

Protein Length

Full-length

Molecular Weight

58.5 kDa

Sequence

MSPRGTGCSAGLLMTVGWLLLAGLQSARGTNVTAAVQDAGLAHEGEGEEETENNDSETAENYAPPETEDVSNRNVVKEVEFGMO

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**

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

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

Gene ID

[81833](#)

UniProt ID

[Q9HBV2](#)