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## Datasheet for ABIN7199566 SPAM1 Protein

### Overview

Quantity:	200 µg
Target:	SPAM1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Human PH20 / SPAM1 Protein, Tag Free (MALS verified)
Sequence:	Leu 36 - Ser 490
Characteristics:	Human PH20, Tag Free (PH0-H5219) is expressed from human 293 cells (HEK293). It contains AA Leu 36 - Ser 490 (Accession # P38567-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

### Target Details

Target:	SPAM1
Alternative Name:	/ SPAM1 ( <a href="#">SPAM1 Products</a> )
Background:	Synonyms: SPAM1,PH-20,HYAL3,HYA1,HYAL1,HYAL5,SPAG15, Description: Hyaluronidase PH-20 is also known as Sperm adhesion molecule 1 (SPAM1) and Sperm surface protein PH-20, which belongs to the glycosyl hydrolase 56 family, SPAM1 / PH-

## Target Details

20 is expressed in testis. SPAM-1 / PH20 random hydrolysis of (1->4)-linkages between N - acetyl - beta - D - glucosamine and D-glucuronate residues in hyaluronate. SPAM-1 / PH20 involved in sperm-egg adhesion. Upon fertilization sperm must first penetrate a layer of cumulus cells that surrounds the egg before reaching the zona pellucida. The cumulus cells are embedded in a matrix containing hyaluronic acid which is formed prior to ovulation. SPAM1 aids in penetrating the layer of cumulus cells by digesting hyaluronic acid.

Molecular Weight: 52.6 kDa

NCBI Accession: [NP\\_694859](#)

## Application Details

Application Notes: This protein carries no "tag". The protein has a calculated MW of 52.6 kDa. The protein migrates as 65-70 kDa under reducing (R) condition due to glycosylation.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: 50 mM Tris, 100 mM NaCl, pH 7.5

Storage: -20 °C

Storage Comment: -20°C