



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## SPAM1 polyclonal antibody (A01)

Catalog # : H00006677-A01

規格 : [ 50 uL ]

List All

### Specification

**Product Description:** Mouse polyclonal antibody raised against a partial recombinant SPAM1.

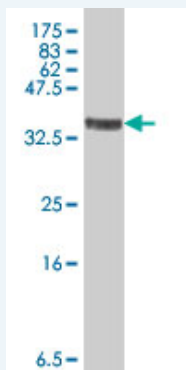
**Immunogen:** SPAM1 (NP\_003108, 346 a.a. ~ 445 a.a) partial recombinant protein with GST tag.

**Sequence:** RSMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQQGVCIRKNWNSS  
DYLHLNPDNFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSYSTLSCK  
E

**Host:** Mouse

**Reactivity:** Human

**Quality Control Testing:** Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (37.11 kDa) .

**Storage Buffer:** 50 % glycerol

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:** [Download](#)

**Datasheet:** [Download](#)

### Publication Reference

- [Hyaluronan synthases and hyaluronidases in nasal polyps.](#)  
Panogeorgou T, Tserbini E, Filou S, Vynios DH, Naxakis SS, Papadas TA, Goumas PD, Mastronikolis NS. Eur Arch Otorhinolaryngol. 2015 Dec 10. [Epub ahead of print]
- [The impact of oxidative stress on chaperone-mediated human sperm-egg interaction.](#)  
Bromfield EG, Aitken RJ, Anderson AL, McLaughlin EA, Nixon B. Hum Reprod. 2015 Sep 7. [Epub ahead of print]
- [Expression of a functional recombinant oleosin-human hyaluronidase hPH-20 fusion in Arabidopsis thaliana.](#)  
Li H, Yang J, Chen Y, Guan L, Du L, Guo Y, Wang W, Wang L, Li H, Jiang C, Li X. Protein Expr Purif. 2014 Mar 24. pii: S1046-5928(14)00064-3. doi: 10.1016/j.pep.2014.03.007.

### Application Image

Western Blot (Recombinant protein)

ELISA

4. [Investigation of the mechanisms by which the molecular chaperone HSPA2 regulates the expression of sperm surface receptors involved in human sperm-oocyte recognition.](#) Redgrove KA, Anderson AL, McLaughlin EA, O'Bryan MK, Aitken RJ, Nixon B. Mol Hum Reprod. 2013 Jan 17.
5. [Proteomic and functional analysis of human sperm detergent resistant membranes.](#) Ebert B, Kisiela M, Wsol V, Maser E. Chem Biol Interact. 2011 Jan 6. [Epub ahead of print]
6. [Autodisplay of catalytically active human hyaluronidase hPH-20 and testing of enzyme inhibitors.](#) KaeBler A, Olgen S, Jose J. Eur J Pharm Sci. 2010 Nov 12. [Epub ahead of print]
7. [Hyaluronidase Expression and Activity Is Regulated by Pro-Inflammatory Cytokines in Human Airway Epithelial Cells.](#) Monzon ME, Manzanares D, Schmid N, Casalino-Matsuda SM, Forteza RM. Am J Respir Cell Mol Biol. 2008 Sep;39(3):289-95. Epub 2008 Apr 3.

## Applications

### Western Blot (Recombinant protein)

 [Protocol Download](#)

### ELISA

## Gene Information

**Entrez GeneID:** [6677](#)

**GeneBank** [NM\\_003117](#)

**Accession#:**

**Protein** [NP\\_003108](#)

**Accession#:**

**Gene Name:** SPAM1

**Gene Alias:** HYA1, HYAL1, HYAL3, HYAL5, MGC26532, PH-20, PH20, SPAG15

**Gene Description:** sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding)

**Omim ID:** [600930](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** Hyaluronidase degrades hyaluronic acid, a major structural proteoglycan found in extracellular matrices and basement membranes. Six members of the hyaluronidase family are clustered into two tightly linked groups on chromosome 3p21.3 and 7q31.3. This gene was previously referred to as HYAL1 and HYA1 and has since been assigned the official symbol SPAM1; another family member on chromosome 3p21.3 has been assigned HYAL1. This gene encodes a GPI-anchored enzyme located on the human sperm surface and inner acrosomal membrane. This multifunctional protein is a hyaluronidase that enables sperm to penetrate through the hyaluronic acid-rich cumulus cell layer surrounding the oocyte, a receptor that plays a role in hyaluronic acid induced cell signaling, and a receptor that is involved in sperm-zona pellucida adhesion. Abnormal expression of this gene in tumors has implicated this protein in degradation of basement membranes leading to tumor invasion and metastasis. Multiple protein isoforms are encoded by transcript variants of this gene. [provided by RefSeq]

**Other Designations:** hyaluronoglucosaminidase, sperm adhesion molecule 1, sperm surface protein PH-20

## Gene Pathway

[Glycosaminoglycan degradation](#) [Metabolic pathways](#)

#### **Related Disease**

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[Cleft Lip](#) [Cleft Palate](#)

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