

## Rabbit SPAM1 Polyclonal Antibody | anti-SPAM1 antibody

SPAM1 Antibody

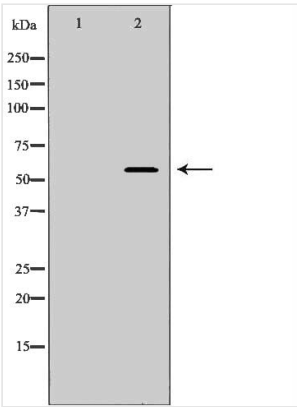
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326603 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

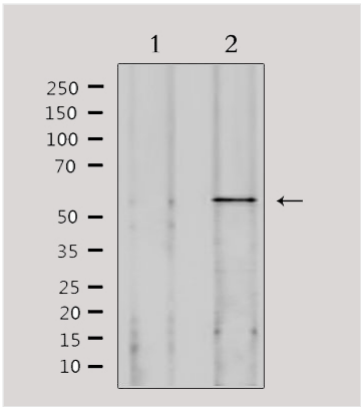
SPAM1; Polyclonal Antibody; SPAM1 Antibody; epididymis secretory sperm binding protein Li 96n; HEL-S-96n; HYA1; HYAL PH-20; HYAL PH20; Hyal-PH20; HYAL1; HYAL3; HYAL5; HYALP\_HUMAN; Hyaluronidase PH-20; Hyaluronoglucosaminidase PH-20; MGC26532; PH-20 Hyaluronidase; PH20; PH20 Hyaluronidase; SPAG15; SPAM-1; Spam1; sperm adhesion molecule 1 (PH-20 hyaluronidase; zona pellucida binding); Sperm adhesion molecule 1; Sperm surface protein PH-20; Sperm surface protein PH20; zona pellucida binding; anti-SPAM1 antibody

### PRODUCT SPECIFICATIONS

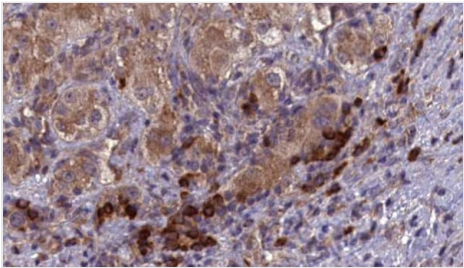
|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                        |
| Reactivity                                      | Human, Mouse, Rat                                                                             |
| Clonality                                       | Polyclonal                                                                                    |
| Isotype                                         | IgG                                                                                           |
| Specificity                                     | SPAM1 antibody detects endogenous levels of total SPAM1                                       |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                 | 509                                                                                           |
| Applicable Applications for anti-SPAM1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                       | A synthesized peptide derived from human SPAM1                                                |
| Subcellular Location                            | Cell Membrane                                                                                 |
| Tissue Specificity                              | Testis.                                                                                       |
| Conjugation                                     | Unconjugated                                                                                  |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                             |



**WB (Western Blot)**  
Western blot analysis of extracts of PC-3, using SPAM antibody. The lane on the left is treated with the antigen-specific peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from 293, using SPAM1 Antibody. Lane 1 was treated with the antigen-specific peptide.



**IHC (Immunohistochemistry)**  
AAA326603 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SPAM1 antibody

Description: 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 transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]  
Function: 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. This protein aids in penetrating the layer of cumulus cells by digesting hyaluronic acid.  
Post-translational Modifications: N-glycosylated.  
Similarity: Belongs to the glycosyl hydrolase 56 family.

NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 291290979      |
| NCBI GeneID               | 6677           |
| NCBI Accession #          | NP_001167515.1 |
| NCBI GenBank Nucleotide # | NM_001174044.1 |

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| UniProt Accession #              | <a href="#">P38567; Q8TC30</a>                            |
| Molecular Weight                 | Observed: 58 kDa<br>Predicted: 58 kDa                     |
| NCBI Official Full Name          | hyaluronidase PH-20 isoform 2                             |
| NCBI Official Synonym Full Names | sperm adhesion molecule 1                                 |
| NCBI Official Symbol             | SPAM1                                                     |
| NCBI Official Synonym Symbols    | HYA1; PH20; HYAL1; HYAL3; HYAL5; PH-20; SPAG15; HEL-S-96n |
| NCBI Protein Information         | hyaluronidase PH-20                                       |
| UniProt Protein Name             | Hyaluronidase PH-20                                       |
| UniProt Gene Name                | <b>SPAM1</b>                                              |
| UniProt Synonym Gene Names       | HYAL3; PH20; Hyal-PH20                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/spam1-antibody-immunohistochemistry-western-blot-elisa/326603>