

Recombinant Human SPAM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPAM1-1187H Lot. No. (See product label)

SPECIFICATION

Product Overview	SPAM1 MS Standard C13 and N15-labeled recombinant protein (NP_003108) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	58.2 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCCLTNFRAPPVIPNVPFLWAWNAPSEF CLGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKI SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQ QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK KPGYNGSCFNVEIKRNDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR SMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNPD NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSCYSTLSCKEKADVKTDAVDVCI DGVCIDAFKPPMETEEPQIFYNASPSTLSATMFIWRLEVWDQGISRIGFFTRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SPAM1 sperm adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	SPAM1
Synonyms	SPAM1; sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding); hyaluronidase PH-20; HYAL5; PH 20; SPAG15; hyal-PH20; sperm surface protein PH-20; hyaluronoglucosaminidase PH-20; HYA1; PH20; HYAL1; HYAL3; PH-20;

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MGC26532;

Gene ID [6677](#)

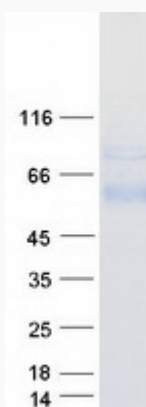
mRNA Refseq [NM_003117](#)

Protein Refseq [NP_003108](#)

MIM [600930](#)

UniProt ID [P38567](#)

SDS-PAGE



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