

Recombinant Human SPAM1 Protein, C-Myc/DDK-tagged

Cat. No. SPAM1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) (SPAM1), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
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

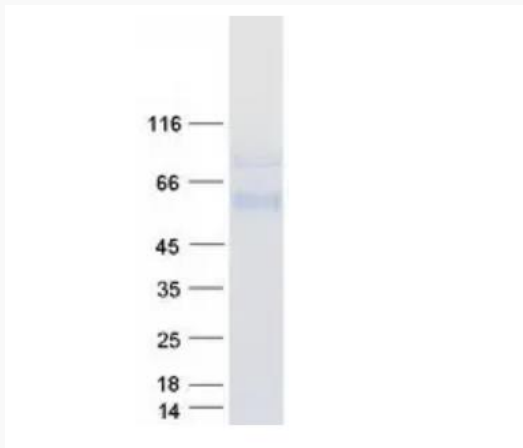
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 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTNFRAPPVIPNVPFLWAWNAPSEF CLGKFDEPLDMSLFSFIGSPRINATGQGVTFIFYVDRLGYYPYIDSITGVTVNGGIPQKI SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQ QQNVQLSLTEATEKAKQEFKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK KPGYNGSCFNVEIKRNDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR SMKSCLLLDNYMETILNPYIINVTLAAMCSQVLCQEQQVCIRKNWNSSDYLHLNPD NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSCYSTLSCKEKADVKD TDAVDV CIA DGVCIDAFLKPPMETEEPQIFYNASPSTLSATMFIWRLEVWDQGISRIGFFTRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
GENE INFORMATION	
Gene Name	SPAM1 sperm adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	SPAM1
Synonyms	SPAM1; sperm adhesion molecule 1; HYA1; PH20; HYAL1; HYAL3; HYAL5; PH-20; SPAG15; HEL-S-96n; hyaluronidase PH-20; PH-20 hyaluronidase; epididymis secretory sperm binding protein Li 96n; hyal-PH20; hyaluronoglucosaminidase PH- 20; sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding); sperm surface protein PH-20; EC 3.2.1.35

Gene ID	6677
mRNA Refseq	NM_003117
Protein Refseq	NP_003108
MIM	600930
UniProt ID	P38567

SDS-PAGE


116 —
66 —
45 —
35 —
25 —
18 —
14 —

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