Recombinant Human SPAM1 Protein

Cat. No. SPAM1-805H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SPAM1 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	509
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.
Form	Lyophilized

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Molecular Mass	52.1 kDa
AA Sequence	MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEF CLGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKI SLQDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQ QQNVQLSLTEATEKAKQEFEKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYK KPGYNGSCFNVEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIR VSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMR SMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNPD NFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIA DGVCIDAFLKPPMETEEPQIFYNASPSTLSATMFIVSILFLIISSVASL
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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GENE INFORMATION

Gene Name	SPAM1 sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding) [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; MGC26532;
Gene ID	6677
mRNA Refseq	NM_001174044
Protein Refseq	NP_001167515
MIM	600930
UniProt ID	P38567

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