

Full-Length

SPAM1 (Human) Recombinant Protein (P01)

Catalog # H00006677-P01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human SPAM1 full-length ORF (NP_694859.1, 1 a.a 509 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEFCLGKFDE PLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKISLQDHLDKAKKDITFYMP VDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLSLTEATEKAKQEFEKAGKDF LVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFNVEIKRNDDLSWLWNESTALYPSML NTQQSPVAATLYVRNRVREAIRVSKIPDAKSPLPVFAYTRIVFTDQVLKFLSQDELVYTFGETVALG ASGIVIWGTLSIMRSMKSCLLLDNYMETILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHL NPDNFAIQLEKGGKFTVRGKPTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIADGVCI DAFLKPPMETEEPQIFYNASPSTLSATMFIVSILFLIISSVASL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	84.2
Interspecies Antigen Sequence	Mouse (63); Rat (62)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

Abnova

Product Information

Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SPAM1	
Entrez GenelD	<u>6677</u>
GeneBank Accession#	<u>NM_153189.1</u>
Protein Accession#	<u>NP_694859.1</u>
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	<u>600930</u>
Gene Ontology	Hyperlink



Product Information

Gene Summary

Hyaluronidase degrades hyaluronic acid, a major structural proteoglycan found in extracellular mat rices and basement membranes. Six members of the hyaluronidase family are clustered into two t ightly 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 memb er on chromosome 3p21.3 has been assigned HYAL1. This gene encodes a GPI-anchored enzy me located on the human sperm surface and inner acrosomal membrane. This multifunctional prot ein is a hyaluronidase that enables sperm to penetrate through the hyaluronic acid-rich cumulus c ell layer surrounding the oocyte, a receptor that plays a role in hyaluronic acid induced cell signalin g, 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 tum or invasion and metastasis. Multiple protein isoforms are encoded by transcript variants of this gene in [provided by RefSeq]

Other Designations

hyaluronoglucosaminidase|sperm adhesion molecule 1|sperm surface protein PH-20

Pathway

- <u>Glycosaminoglycan degradation</u>
- Metabolic pathways

Disease

- Cleft Lip
- Cleft Palate