SEMG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEMG1, Polyclonal Antibody
Full Product Name	SEMG1, NT (SEMG1, SEMG, Semenogelin-1, Semenogelin I, Alpha-inhibin-92, Alpha-inhibin-31, Seminal basic protein) (MaxLight 750)
Product Gene Name	anti-SEMG1 antibody
Product Synonym Names	SEMG1; SEMG; Semenogelin-1; Semenogelin I; Alpha-inhibin-92; Alpha-inhibin-31; Seminal basic protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45,322 Da
OMIM	182140
3D Structure	ModBase 3D Structure for P04279
Immunogen	SEMG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 91-121 amino acids from the N-terminal region of human SEMG1.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SEMG1 antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-SEMG1 antibody	Western Blot (WB), FLISA
Application Notes for anti-SEMG1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SEMG1 antibody	The protein encoded by this gene is the predominant protein in semen. The encoded secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes this protein into smaller peptides, with each possibly having a separate function. The proteolysis process breaks down the gel matrix and allows the spermatozoa to move more freely.
Product References and Citations for anti-SEMG1 antibody	Mitra, A., et al. Biol. Reprod. 82(3):489-496(2010). Yoshida, K., et al. Cell Motil. Cytoskeleton 66(2):99-108(2009). Ahmed, S.U., et al. Cytotherapy 11(2):238-244(2009). Edstrom, A.M., et al. J. Immunol. 181(5):3413-3421(2008). Emami, N., et al. J. Biol. Chem. 283(28):19561-19569(2008).

Other Notes	Small volumes of anti-SEMG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SEMG1 purchase	MBS6346051 is an antibody targeting SEMG1. Also known as SEMG1, NT (SEMG1, SEMG, Semenogelin-1, Semenogelin I, Alpha-inhibin-92, Alpha-inhibin-31, Seminal basic protein) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEMG1. It may not necessarily be applicable to this product.

NCBI GI #	4506883
NCBI GeneID	6406
NCBI Accession #	NP_002998.1
UniProt Primary Accession #	P04279
UniProt Secondary Accession #	Q53ZV0; Q53ZV1; Q53ZV2; Q6X4I9; Q6Y809; Q6Y822; Q6Y823; Q86U64; Q96QM3
UniProt Related Accession #	P04279
GenBank Nucleotide #	NM_003007.3
NCBI Official Full Name	semenogelin-1 preproprotein
NCBI Official Synonym Full Names	semenogelin I
NCBI Official Symbol	SEMG1
NCBI Official Synonym Symbols	SGI; SEMG; CT103; dJ172H20.2
UniProt Protein Name	Semenogelin-1
UniProt Synonym Protein Names	Semenogelin I
Protein Family	Semenogelin
UniProt Gene Name	SEMG1
UniProt Synonym Gene Names	SEMG; SGI
UniProt Entry Name	SEMG1_HUMAN
NCBI Protein Information	semenogelin-1; SgI-29; cancer/testis antigen 103; semen coagulating protein
NCBI Summary for SEMG1	The protein encoded by this gene is the predominant protein in semen. The encoded secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes this protein into smaller peptides, with each possibly having a separate function. The proteolysis process breaks down the gel matrix and allows the spermatozoa to move more freely. The antimicrobial peptide SgI-29 is an antimicrobial peptide with antibacterial activity. [provided by RefSeq, Nov 2014]

UniProt Comments for SEMG1	SEMG1: Predominant protein in semen. It participates in the formation of a gel matrix entrapping the accessory gland secretions and ejaculated spermatozoa. Fragments of semenogelin and/or fragments of the related proteins may contribute to the activation of progressive sperm movements as the gel-forming proteins are fragmented by KLK3/PSA. Belongs to the semenogelin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide; Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 20q12-q13.2 Cellular Component: extracellular space; extracellular region; nucleus; secretory granule Molecular Function: protein binding; structural molecule activity Biological Process: insemination
Research Articles on SEMG1	**1.** Data indicate that semenogelin I (Sg I) expression has potential value in predicting renal cell carcinoma (RCC) progression and prognosis, suggesting the use of Sg I as a biomarker for RCC.
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