SEMG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEMG1, Polyclonal Antibody
Full Product Name	SEMG1 (N-Term) Rabbit pAb
Product Gene Name	anti-SEMG1 antibody
Product Synonym Names	Semenogelin-1; Semenogelin I; SGI; Alpha-inhibin-92; Alpha-inhibin-31; Seminal basic protein; SEMG1; SEMG
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB34437
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	182140
3D Structure	ModBase 3D Structure for P04279
Immunogen	This SEMG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-121 amino acids from the N-terminal region of human SEMG1.
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SEMG1 antibody	Western Blot (WB)
Application Notes for anti-SEMG1 antibody	WB: 1:1000
Related Product Information for anti-SEMG1 antibody	MBS8552359 is an antibody targeting SEMG1. Also known as SEMG1 (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	338019
NCBI GeneID	6406
NCBI Accession #	AAB59506.1
UniProt Primary Accession #	P04279
UniProt Related Accession #	P04279

NCBI Official Full Name	semenogelin
NCBI Official Synonym Full Names	semenogelin 1
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
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. This preproprotein is proteolytically processed by the prostate-specific antigen (PSA) protease to generate multiple peptide products that exhibit distinct functions. One of these peptides, SgI-29, is an antimicrobial peptide with antibacterial activity. This proteolysis process also breaks down the gel matrix and allows the spermatozoa to move more freely. This gene and another similar semenogelin gene are present in a gene cluster on chromosome 20. [provided by RefSeq, Feb 2016]
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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