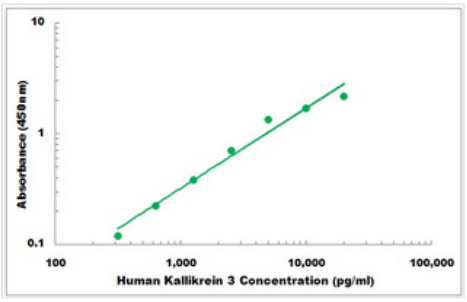
Kallikrein 3 (KLK3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Kallikrein 3 (KLK3), ELISA Kit
Full Product Name	Human Kallikrein 3 ELISA Kit
Product Gene Name	KLK3 elisa kit
Product Synonym Names	APS; Prostate-specific antigen; PSA; Gamma-seminoprotein; Seminin; Kallikrein-3; P-30 antigen; Semenogelase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma
Detection Range	312 pg/ml - 20000 pg/ml
Sensitivity	10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	25,116 Da
OMIM	176820
3D Structure	ModBase 3D Structure for P07288
Detection Method	Colorimetric
Applications Tested/Suitable for KLK3 elisa kit	Sandwich ELISA (SE)
Related Product Information for KLK3 elisa kit	Sandwich ELISA for quantitative detection of Human Kallikrein 3 concentrations.
Other Notes	Small volumes of KLK3 elisa kit 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 KLK3 purchase	MBS824842 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Kallikrein 3 (KLK3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing KLK3. The ELISA analytical biochemical technique of the MBS824842 kit is based on KLK3 antibody-KLK3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect KLK3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, KLK3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of KLK3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK3. It may not necessarily be applicable to this product.

NCBI GI #	71834853
NCBI GeneID	354
NCBI Accession #	NP_001025218.1
UniProt Primary Accession #	P07288
UniProt Secondary Accession #	Q15096; Q16272; Q86TG8; Q8IXI4; C9JXH3; G3V0H4; G3XAE3
UniProt Related Accession #	P07288
GenBank Nucleotide #	NM_001030047.1
NCBI Official Full Name	prostate-specific antigen isoform 3 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 3
NCBI Official Symbol	KLK3
NCBI Official Synonym Symbols	APS; PSA; hK3; KLK2A1
UniProt Protein Name	Prostate-specific antigen
UniProt Synonym Protein Names	Gamma-seminoprotein; Seminin; Kallikrein-3; P-30 antigen; Semenogelase
Protein Family	Glandular kallikrein
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Seminin
UniProt Entry Name	KLK3_HUMAN
NCBI Protein Information	prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen
NCBI Summary for KLK3	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for KLK3	PSA: Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum. Forms heterodimer with SERPINA5. Inhibited by SERPINA5. Activity is strongly inhibited by Zn2+, 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins, which are avid zinc binders. Belongs to the peptidase S1 family. Kallikrein subfamily. Protein type: Secreted, signal peptide; Secreted; EC 3.4.21.77; Protease Chromosomal Location of Human Ortholog: 19q13.41 Cellular Component: extracellular region; nucleus Molecular Function: protein binding; serine-type peptidase activity; serine-type endopeptidase activity Biological Process: negative regulation of angiogenesis; cellular protein metabolic process; proteolysis
Research Articles on KLK3	**1.** A highly sensitive modified nucleic acid amplification assay assesses KLK3, PCA3, and TMPRSS2-ERG mRNA in castration-resistant prostate cancer patients.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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