Kallikrein 10 (KLK10) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Kallikrein 10 (KLK10), ELISA Kit
Full Product Name	Sheep Kallikrein 10 ELISA Kit
Product Gene Name	KLK10 elisa kit
Species Reactivity	Sheep
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	30,170 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (51516000..51523431, complement). Location: 19q13
OMIM	602673
3D Structure	ModBase 3D Structure for O43240
Related Product Information for KLK10 elisa kit	MBS044597 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Kallikrein 10 (KLK10) 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 KLK10. The ELISA analytical biochemical technique of the MBS044597 kit is based on KLK10 antibody-KLK10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect KLK10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, KLK10. 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(%).
Other Notes	Small volumes of KLK10 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLK10. It may not necessarily be applicable to this product.

NCBI GI #	117422433
NCBI GeneID	5655
NCBI Accession #	NP_001070968.1
UniProt Primary Accession #	O43240
UniProt Secondary Accession #	Q53YL3; Q99920; Q9GZW9; A6NC12
UniProt Related Accession #	O43240
GenBank Nucleotide #	NM_001077500.1
NCBI Official Full Name	kallikrein-10 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 10
NCBI Official Symbol	KLK10
NCBI Official Synonym Symbols	NES1; PRSSL1
UniProt Protein Name	Kallikrein-10

UniProt Synonym Protein Names	Normal epithelial cell-specific 1; Protease serine-like 1
Protein Family	Glandular kallikrein
UniProt Gene Name	KLK10
UniProt Synonym Gene Names	NES1; PRSSL1
UniProt Entry Name	KLK10_HUMAN
NCBI Protein Information	kallikrein-10; kallikrein 10; protease serine-like 1; protease, serine-like, 1; normal epithelial cell-specific 1; breast normal epithelial cell associated serine protease
NCBI Summary for KLK10	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 encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for KLK10	KLK10: Has a tumor-suppressor role for NES1 in breast and prostate cancer. Belongs to the peptidase S1 family. Kallikrein subfamily. Protein type: Tumor suppressor; EC 3.4.21.-; Secreted; Secreted, signal peptide; Protease Chromosomal Location of Human Ortholog: 19q13 Cellular Component: extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: proteolysis; cell cycle
Research Articles on KLK10	**1.** KLK10 DNA methylation was significantly associated with prostate cancer.
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