



## Product datasheet

### Mouse Anti-KLK3 (MM133)

## Overview

<b>Product name</b>	Anti-Human kallikrein-3, PSA (KLK3)
<b>Host species</b>	Mouse
<b>Target species</b>	Human
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ELISA, Immunomicroscopy, Dot blot, ICC, IHC-Fr
<b>Immunogen</b>	A KLH-conjugated synthetic peptide derived from human kallikrein-3 (KLK3) protein was used for immunization.
<b>Conjugation</b>	Unconjugated

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4 °C. Store at -20 °C. Avoid freeze/thaw cycle. Please see notes section.
<b>Storage buffer</b>	Phosphate buffered saline pH 7.4, contains stabilizer and ≤0.09% sodium azide.
<b>Purity</b>	immunogen affinity purified
<b>Purification notes</b>	This product was prepared by immunoaffinity chromatography using immunogen peptide coupled to Sepharose 4B.
<b>Conjugation notes</b>	-
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>General notes</b>	For extended storage aliquot contents and freeze at -20 °C or below. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Our customer's feedback says the antibody worked great. If in case the antibody fails to give results then please contact our scientific support team for assistance.

## Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end-user.

### Product Usage Information:

#### Application Dilutions

Western Blotting	3-5 ug/ml
Immunohistochemistry (Paraffin)	5-10 ug/ml
Immunohistochemistry (Frozen)	5-10 ug/ml
Immunofluorescence	5-10 ug/ml
Flow Cytometry	5-10 ug/ml

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

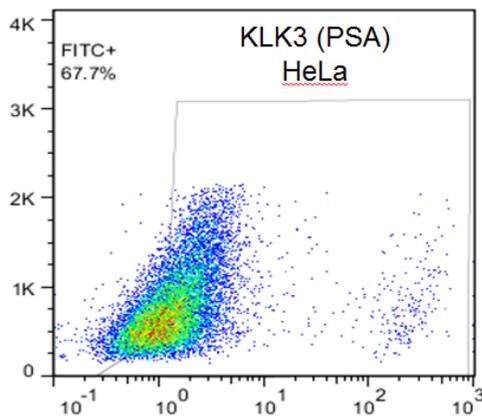
### Background:

Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a glycoprotein enzyme encoded in humans by the KLK3 gene. PSA is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland.

PSA is produced for the ejaculate, where it liquefies semen in the seminal coagulum and allows sperm to swim freely. It is also believed to be instrumental in dissolving cervical mucus, allowing the entry of sperm into the uterus.

PSA is present in small quantities in the serum of men with healthy prostates, but is often elevated in the presence of prostate cancer or other prostate disorders. PSA is not uniquely an indicator of prostate cancer, but may also detect prostatitis or benign prostatic hyperplasia.

### References:



**Figure 1. Flow cytometry assay.**

Note: This product has originally been developed at Avicenna Research Institute, Tehran, IRAN and assigned to PADZA Company according to contract 98/15/191dated 98/01/10.