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KLK3 (Kallikrein-3), human recombinant protein

APS, KLK2A1, PSA, Hk3
Catalog # PBV10380r

Specification

KLK3 (Kallikrein-3), human recombinant protein - Product info

Primary Accession	P07288
Calculated MW	35 kDa KDa

KLK3 (Kallikrein-3), human recombinant protein - Additional Info

Gene ID	354
Gene Symbol	KLK3

Other Names
APS, KLK2A1, PSA, Hk3, P-30 antigen, Semenogelase

Gene Source	Human
Source	Human
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	>100 pmoles/min/ µg

Application Notes
Detailed reconstitution instructions are sent along with the product.

Format
Lyophilized protein

Storage
-70°C; Lyophilized from sterile PBS, pH 7.4. (Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.)

KLK3 (Kallikrein-3), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KLK3 (Kallikrein-3), human recombinant protein - Images

KLK3 (Kallikrein-3), human recombinant protein - Background

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Prostate-specific antigen, also known as Gamma-seminoprotein, Kallikrein-3, kallikrein-related peptidase 3, Semenogelase, KLK3 and PSA, is a secreted protein which belongs to thepeptidase S1 family and Kallikrein subfamily. KLK3/Kallikrein 3 contains one peptidase S1 domain. KLK3/Kallikrein 3 is a glycoprotein produced almost exclusively by the prostate gland. KLK3/Kallikrein 3 is produced for the ejaculate where it liquifies the semen in the seminal coagulum and allows sperm to swim freely.It is also believed to be instrumental in dissolving the cervical mucous, allowing the entry of sperm. Human KLK3/Kallikrein 3 and human KLK2 are closely related products of the human kallikrein genes KLK3 and KLK2, respectively. Both KLK3/Kallikrein 3 and human kallikrein 2 are produced and secreted in the prostate and have important applications in the diagnosis of prostate cancer. Understanding the mechanism by which genetic variation in KLK3/Kallikrein 3 affects prostate cancer risk has important implications for study of the biological role of KLK3/Kallikrein 3 in prostate tumorigenesis.

KLK3 (Kallikrein-3), human recombinant protein - References

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