

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 Cytometry](#)
- [Cell Culture](#)

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

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 the peptidase 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

- Lundwall A., et al. FEBS Lett. 214:317-322(1987).
Digby M.R., et al. Nucleic Acids Res. 17:2137-2137(1989).
Klobeck H.-G., et al. Nucleic Acids Res. 17:3981-3981(1989).
Lundwall A., et al. Biochem. Biophys. Res. Commun. 161:1151-1159(1989).
Henttu P., et al. Biochem. Biophys. Res. Commun. 160:903-910(1989).