10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp Kallikrein-11, human recombinant protein

KLK11, Kallikrein-11, Hippostasin, hK11, PRSS20, TLSP
Catalog # PBV11039r

Specification

Human CellExp Kallikrein-11, human recombinant protein - Product info

Primary Accession	Q9UBX7
Calculated MW	**This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 26.5 kDa. The predicted N-terminus is Glu 19. DTT-reduced Protein migrates as 35-45 kDa due to glycosylation. KDa**

Human CellExp Kallikrein-11, human recombinant protein - Additional Info

Gene ID	**11012**
Gene Symbol	**KLK11**

Other Names
KLK11, Kallikrein-11, Hippostasin, hK11, PRSS20, TLSP

Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**Measured by its ability to cleave a colorimetric peptide substrate D-Val-Leu-Lys-ThioBenzyl ester (VLK-SBzl), in the presence of 5,5’ Dithio-bis (2-nitrobenzoic acid) (DTNB). Edwards, K.M. et al. (1999). J. Biol. Chem. 274, 30468. The specific activity is > 300 pmoles / min / µg.**

Target/Specificity
Kallikrein-11

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 2 mM CaCl2, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp Kallikrein-11, 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

Human CellExp Kallikrein-11, human recombinant protein - Images

Human CellExp Kallikrein-11, human recombinant protein - Background

Kallikrein 11 (KLK11) is also known as Hippostasin, Serine protease 20, Trypsin-like protease, PRSS20, TLSP, which belongs to the peptidase S1 family and Kallikrein subfamily. KLK11 contains one peptidase S1 domain. KLK11 is expressed in brain, skin and prostate. Isoform 1 is expressed preferentially in brain. Isoform 2 is expressed in prostate. Present in seminal plasma at concentrations ranging from 2 to 37 µg/mL (at protein level). Kallikrein 11 /KLK11 is a possible multifunctional protease and efficiently cleaves 'bz-Phe-Arg-4-methylcoumaryl-7-amide', a kallikrein substrate, and weakly cleaves other substrates for kallikrein and trypsin. KLK11 cleaves synthetic peptides after arginine but not lysine residues.

Human CellExp Kallikrein-11, human recombinant protein - References

Yoshida S.,et al.Biochim. Biophys. Acta 1399:225-228(1998).
Mitsui S.,et al.Biochem. Biophys. Res. Commun. 272:205-211(2000).
Yousef G.M.,et al.Genomics 63:88-96(2000).
Gan L.,et al.Gene 257:119-130(2000).
Nakamura T.,et al.Prostate 54:299-305(2003).