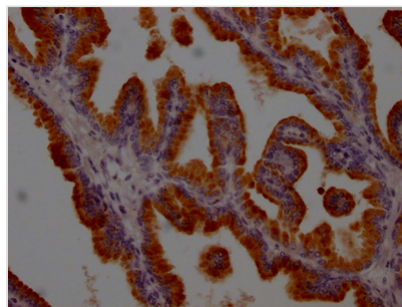




KLK3 Antibody

Product Code	CSB-RA548583A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P07288
Immunogen	A synthesized peptide derived from human PSA/KLK3
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cancer; Tags & Cell Markers; Immunology; Signal transduction
Gene Names	KLK3
Accession NO.	7D4

Image



IHC image of CSB-RA548583A0HU diluted at 1:100 and staining in paraffin-embedded human prostate tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

KLK3, also called prostate-specific antigen (PSA), is a prostate-specific serine protease. It is the chief executor of the fragmentation of semenogelins, the dissolution of the seminal fluid coagulum, thereby releasing sperm for active motility. PSA has ubiquitously been used as a biomarker for prostate cancer (pCa) screening due to pCa patients usually having a higher serum PSA concentrations. Additionally, PSA is also associated with proliferation, invasion,



metastasis, angiogenesis, apoptosis, immune response, and tumor microenvironment regulation of prostate cancer cells.

This recombinant KLK3 antibody was developed with the Single B cell platform. The main process included identification and isolation of single B cells; amplification and cloning of KLK3 antibody gene; expression, screening, and identification of antibody specificity. And this KLK3 antibody has been validated in ELISA, IHC.