



Rabbit Anti-Human KLK3 Monoclonal Antibody, clone CQ7154 (CABT-Z214R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to PSA residues within aa150-250 of PSA was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7154
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	29 kDa
Cellular Localization	Cytoplasm
Positive Control	Prostate cancer
Format	Liquid
Concentration	Lot specific
Size	100 µl

Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Prostate-specific antigen (PSA) is a single-chain glycoprotein of 237 amino acids containing approximately 8% carbohydrate. It is a serine protease produced almost exclusively by prostatic epithelial cells. Immunohistochemically PSA is expressed in the highly specialized apically-superficial layer of female and male secretory cells of the prostate gland, and is readily demonstrated in adenocarcinomas of the prostate in about 99% of the cases. There is a correlation between malignancy grade and intensity of staining, high grade carcinomas displaying weaker expression. About 1% of poorly differentiated carcinomas have been negative for PSA. Due to the high specificity of PSA for prostatic glandular epithelium, it is very useful in identifying prostatic carcinoma in the prostate and in the adjacent organs often affected by epithelial malignancies, i.e. rectum and urinary bladder. PSA may be used in a panel together with NKX3.1 and Prostein, which are at least as sensitive and slightly more specific than PSA.
Keywords	KLK3; kallikrein-related peptidase 3; APS; PSA; hK3; KLK2A1; prostate-specific antigen; seminin; P30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen

GENE INFORMATION

Gene Name	KLK3
Entrez Gene ID	354
UniProt ID	P07288