

Anti-Prostate Specific Antigen/KLK3 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9259-Fluoro647

About KLK3

Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a glycoprotein enzyme encoded in humans by the KLK3 gene. KLK3 is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. This gene is mapped to 19q13.33. KLK3 is present in small quantities in the serum of men with healthy prostates, but is often elevated in the presence of prostate cancer or other prostate disorders. KLK3 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 cap, allowing the entry of sperm. It is not a unique indicator of prostate cancer, but may also detect prostatitis or benign prostatic hyperplasia.

Overview

Product Name	Anti-Prostate Specific Antigen/KLK3 Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P07288

Technical Details

Immunogen	E.coli-derived human PSA recombinant protein (Position: I25-P261). Human PSA shares 54% amino acid (aa) sequence identity with rat PSA.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm

	Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

5 Publications Citing This Product

1. PubMed ID: 10.3390/nu11092203, 6 β -Sialyllactose Ameliorates In Vivo and In Vitro Benign Prostatic Hyperplasia by Regulating the E2F1/pRb-AR Pathway
2. PubMed ID: 10.18632/aging.102731, Baicalin alleviates benign prostate hyperplasia through androgen-dependent apoptosis
3. PubMed ID: 10.3390/ijms21249567, Anti-Proliferative Effects of Standardized Cornus officinalis on Benign Prostatic Epithelial Cells via the PCNA/E2F1-Dependent Cell Cycle Pathway

Visit bosterbio.com/anti-psa-picoband-trade-antibody-pb9259-boster.html to see all 5 publications.

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