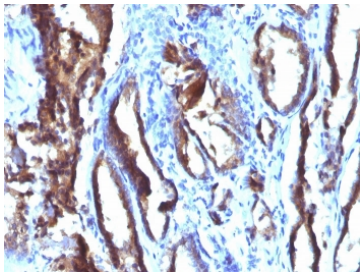
PSA Antibody 3E6 / Prostate Specific Antigen MAb [clone 3E6.] (V7880)

Catalog No.	Formulation	Size
V7880-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7880-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7880SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	3E6.
Purity	Protein G affinity chromatography
UniProt	P07288
Localization	Cytoplasmic
Applications	Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This PSA Antibody 3E6 is available for research use only.



PSA Antibody 3E6 in Human Prostate Carcinoma IHC. Immunohistochemistry of FFPE human prostate carcinoma tissue using PSA Antibody (clone 3E6) demonstrates strong, predominantly cytoplasmic staining of malignant glandular epithelial cells, with comparatively little staining in the surrounding stroma. Tissue sections underwent HIER by boiling in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The distinct epithelial staining pattern demonstrates recognition of prostate specific antigen by this Prostate Specific Antigen MAb in prostate carcinoma tissue.

Description

PSA Antibody 3E6 recognizes prostate specific antigen (PSA), a secreted serine protease encoded by the KLK3 gene. PSA is a member of the kallikrein related peptidase family and is produced predominantly by luminal epithelial cells of the prostate. The protein is synthesized as a precursor that undergoes proteolytic processing before secretion, resulting in the mature glycosylated enzyme.

PSA functions primarily in seminal fluid, where its serine protease activity contributes to liquefaction of the seminal coagulum through cleavage of semenogelins and other proteins. PSA can occur in both free and protein-bound forms. In circulation, a substantial fraction is complexed with protease inhibitors, particularly alpha 1-antichymotrypsin, while additional PSA remains uncomplexed.

KLK3 expression is closely associated with differentiated prostate secretory epithelium and is strongly regulated by androgen receptor signaling. PSA expression is commonly retained in prostate adenocarcinoma, making the protein useful for research into prostate epithelial differentiation, tumor biology, androgen-responsive gene regulation, and proteins associated with prostate-derived malignancies. Its restricted expression pattern has also made PSA an extensively studied marker of prostatic epithelial origin.

Clone 3E6 is a mouse monoclonal antibody generated against human prostate specific antigen. This clone recognizes PSA and can be paired with the A67-B/E3 monoclonal antibody in PSA assay research. As a Prostate Specific Antigen MAb, clone 3E6 provides a defined monoclonal reagent for investigating KLK3 protein and prostate-associated biology. NSJ Bioreagents supplies 3E6 for research use only.

A PSA Antibody can be used to investigate KLK3 expression, prostate epithelial differentiation, PSA protein biology, and molecular processes associated with prostate cancer research.

For a complementary recombinant clone with broader application validation, see our Prostate Specific Antigen Antibody RM323 / KLK3 Antibody page.

Application Notes

Optimal dilution of the PSA Antibody 3E6 should be determined by the researcher.

Immunogen

Human Prostate Specific Antigen was used as the immunogen for the PSA Antibody 3E6.

Storage

Store the PSA Antibody 3E6 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

PSA antibody, KLK3 antibody, prostate specific antigen antibody, prostate-specific antigen antibody, kallikrein 3 antibody, kallikrein related peptidase 3 antibody, gamma-seminoprotein antibody

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