

Mouse anti-Human PSA Monoclonal Antibody | anti-KLK3 antibody

anti-human Prostate-Specific Antigen (PSA) monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71456	Mouse	Human	Immunohistochemistry, Flow Cytometry, Functional Assay

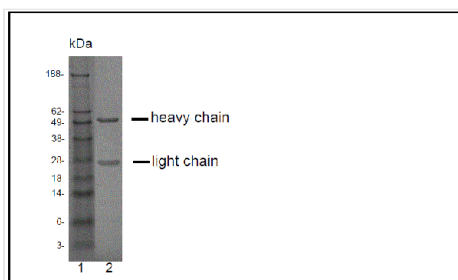
PRODUCT SYNONYMS

PSA; Monoclonal Antibody; anti-human Prostate-Specific Antigen (PSA) monoclonal antibody; anti-KLK3 antibody

PRODUCT SPECIFICATIONS

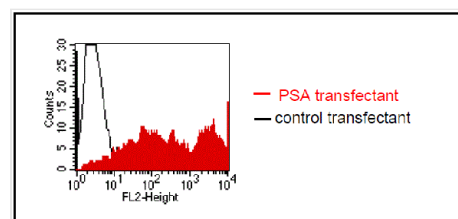
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	LT-3D2
Specificity	anti-human PSA (glandular kallikrein 3)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	238
Applicable Applications for anti-KLK3 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human PSA
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.2: SDS-PAGE analysis of purified LT-3D2 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified LT-3D2 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



Application Data

Fig.1: FACS analysis of BOSC23 cells using LT-3D2 Cat.# GM-0902. BOSC23 cells were transiently transfected with an expression vector encoding either PSA (red curve) or an irrelevant protein (control transfectant: black curve). Binding of LT-3D2 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with PSA transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-KLK3 antibody	Background: Prostate specific antigen (PSA) belongs to the kallikrein gene family. It is a single-chain glycoprotein with a molecular mass of about 33 kD which is produced by prostate epithelial cells. It is secreted in the seminal plasma and is responsible for liquefaction of the seminal coagulum (1,2). PSA is present in small quantities in the serum of healthy males, and is often elevated in the presence of prostate cancer and in other prostate disorders. It is one of the most useful tumour markers because of its tissue specificity. It is thus widely used for screening, identification, and monitoring patients with prostate cancer (3).
References	Steven P Balk, Yoo-Joung Ko, Glenn J Bubley (2003). Biology of Prostate-Specific Antigen. Journal of Clinical Oncology 28 (2): 383-91. Lilja H (2003). Biology of Prostate-Specific Antigen. Urology 62 (5 Suppl 1): 27-33. PMID 14607215. Oesterling JE (1991): Prostate specific antigen: a critical assessment of the most useful tumor marker for adenocarcinoma of the prostate. J Urol 145:907-923

NCBI AND UNIPROT INFORMATION

NCBI GI #	71834853
NCBI GeneID	354
NCBI Accession #	NP_001025218.1
NCBI GenBank Nucleotide #	NM_001030047.1
UniProt Accession #	P07288; Q15096; Q16272; Q86TG8; Q8IXI4; C9JXH3; G3V0H4; G3XAE3
Molecular Weight	25,116 Da
NCBI Official Full Name	prostate-specific antigen isoform 3 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 3
NCBI Official Symbol	KLK3
NCBI Official Synonym Symbols	APS; PSA; hK3; KLK2A1
NCBI Protein Information	prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Semin
UniProt Entry Name	KLK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/psa-antibody-clone-lt-3d2-immunohistochemistry-flow-cytometry-elisa/71456>