

Mouse anti-Human PAP Monoclonal Antibody | anti-ACPP antibody

anti-human Prostatic Acid Phosphatase (PAP) monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71488	Mouse	Human	ELISA, Flow Cytometry, Functional Assay

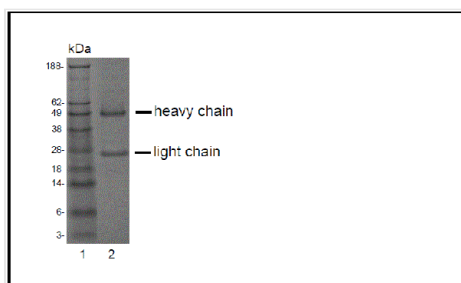
PRODUCT SYNONYMS

PAP; Monoclonal Antibody; anti-human Prostatic Acid Phosphatase (PAP) monoclonal antibody; anti-ACPP antibody

PRODUCT SPECIFICATIONS

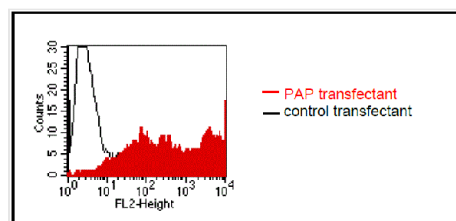
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	LT-3D1
Specificity	anti-human PAP (PacP, ACPP)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	386
Applicable Applications for anti-ACPP antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human PAP
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-3D1 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified LT-3D1 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



Application Data

Fig.1: FACS analysis of BOSC23 cells using LT-3D1 Cat.# GM-0907. BOSC23 cells were transiently transfected with an expression vector encoding either PAP (red curve) or an irrelevant protein (control transfectant: black curve). Binding of LT-3D1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with PAP transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-ACPP antibody	Background: Human prostatic acid phosphatase (PAP) is a non-specific phosphomonoesterase, synthesised and secreted into seminal plasma under androgenic control. Human PAP is a 100 kDa glycoprotein containing two subunits of approximately 50 kDa each (1,2). It catalyses the dephosphorylation of organic monophosphate esters, demonstrating optimum activity at an acid pH. Produced by the prostatic epithelium, serum levels of PAP are very low in healthy individuals, but are often elevated in malignant and benign prostatic disease while it has been used as a marker of identification and therapy control of cancer of the prostate gland (3).
References	Ostrowski WS, Kuciel R (1994). Human prostatic acid phosphatase: selected properties and practical applications. Clin Chim Acta 226(2):121-9 Bilhartz DL, Tindall DJ, Oesterling JE (1991). Prostate-specific antigen and prostatic acid phosphatase: biomolecular and physiologic characteristics. Urology 38(2):95-102 Veeramani S, Yuan TC, Chen SJ, Lin FF, Petersen JE, Shaheduzzaman S, Srivastava S, MacDonald RG, Lin MF (2005). Cellular prostatic acid phosphatase: a protein tyrosine phosphatase involved in androgen-independent proliferation of prostate cancer. Endocr Relat Cancer 12(4):805-22

NCBI AND UNIPROT INFORMATION

NCBI GI #	6382064
NCBI GeneID	55
NCBI Accession #	NP_001090.2
NCBI GenBank Nucleotide #	NM_001099.4
UniProt Accession #	P15309; Q5FBY0; Q96KY0; Q96QK9; Q96QM0; D3DNC6
Molecular Weight	40,443 Da
NCBI Official Full Name	prostatic acid phosphatase isoform PAP
NCBI Official Synonym Full Names	acid phosphatase, prostate
NCBI Official Symbol	ACPP
NCBI Official Synonym Symbols	ACP3; 5'-NT; ACP-3
NCBI Protein Information	prostatic acid phosphatase; TMPase; 5'-nucleotidase; ecto-5'-nucleotidase; thiamine monophosphatase; prostatic acid phosphotase
UniProt Gene Name	ACPP
UniProt Synonym Gene Names	PAP; 5'-NT; TMPase
UniProt Entry Name	PPAP_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/pap-antibody-clone-lt-3d1-competitive-elisa-flow-cytometry-elisa/71488>