OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for DM1223

Prostatic Acid Phosphatase (ACPP) Mouse Monoclonal Antibody [Clone ID: LT-3D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LT-3D1
Applications:	ELISA, FC, WB
Recommended Dilution:	**Flow cytometry:** 1.2 µg/10e6 cells. **Cell based ELISA** with intakt, transiently transfected cells: 1/200-1/400. **ELISA (detection):** With clone LT-6C11-A1 as capture antibody.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding Human PAP.
Specificity:	Recognizes Prostatic Acid Phosphatase PAP (PAcP, ACPP).
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	acid phosphatase, prostate
Database Link:	Entrez Gene 55 Human P15309

View online »

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 diagnosis and therapy control of cancer of the prostate gland (3).

Synonyms: Prostate acid phosphatase, PAP, ACP3, PSAP

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Riboflavin metabolism

Product images:

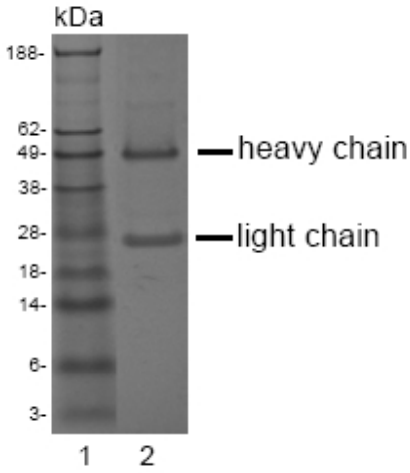

Figure 2. : SDS-PAGE analysis of purified LT-3D1 monoclonal antibody. Lane 1: Molecular Weight marker, Lane 2: 2ug of purified LT-3D1 antibody. Proteins were separated by SDS-PAGE and stained with RAPID StainTM Reagent.

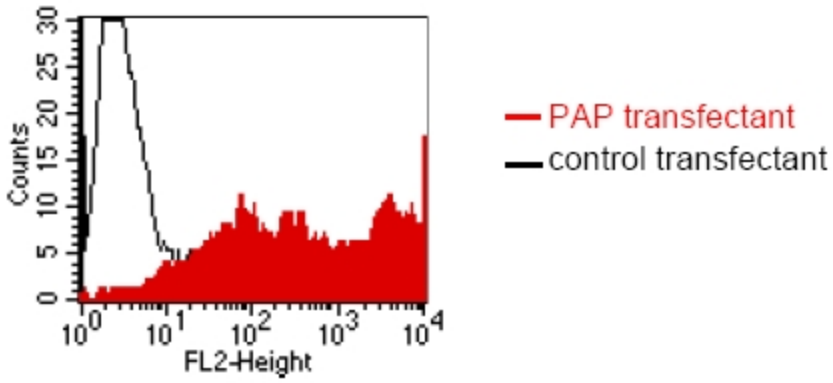

Figure 1: FACS analysis of BOSC23 cells using LT-3D1. BOSC23 cells were transiently transfected with an expres-sion vector encoding either PAP (Red curve) or an irrelevant protein (Control transfectant: black curve). Binding of LT-3D1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with PAP transfected cells.