

Prostatic Acid Phosphatase Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00075

Clone# RR679

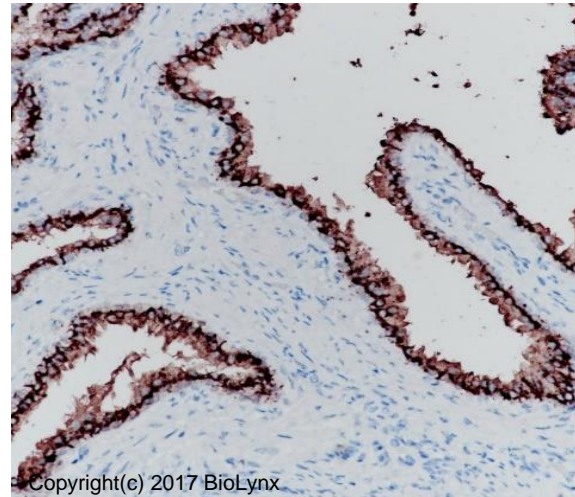
Predicted Molecular Wt: 45kDa
Species Cross-reactivity: Human

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P15309

Applications: IHC-P FC IF/ICC

Background:

A non-specific tyrosine phosphatase that dephosphorylates a diverse number of substrates under acidic conditions (pH 4-6) including alkyl, aryl, and acyl orthophosphate monoesters and phosphorylated proteins. Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma.



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Immunogen:

A synthetic peptide corresponding to Prostatic Acid Phosphatase residues within aa1-100 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

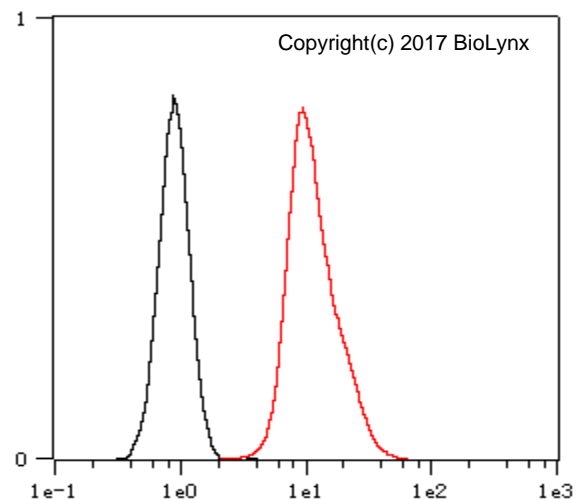
Recommended Dilutions:

IHC-P: 1:12,800 - 1:25,600
 FC: 1:200 - 1:1,000
 IF/ICC: 1:50 - 1:200

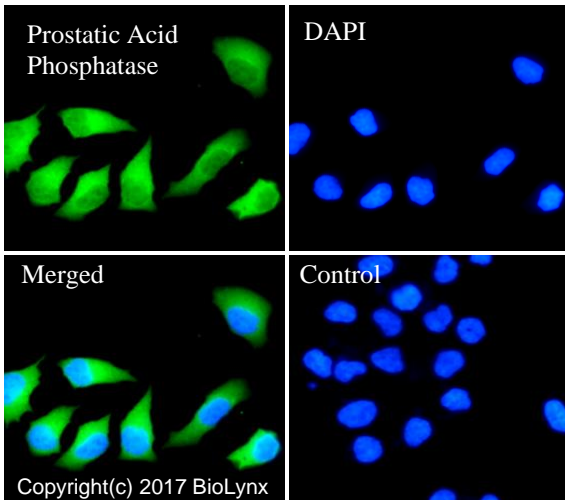
Background References:

1. Cai, C. et al. J. Biol. Chem. 281, 4267-73 (2006).
2. Cline, H. Curr. Biol. 15, R203-5 (2005).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate cancer tissue labelling Prostatic Acid Phosphatase with RR679 at 1:25,600. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



Overlay histogram showing HeLa cells stained with RR679 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR679, 1:200 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



RR679 staining Prostatic Acid Phosphatase in HeLa cells by IF/ICC (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:200) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG(1:500).

Product QC'd by:



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