

PAP Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50361

Clone# BP6329

Predicted Molecular Wt: 45kDa
Species Cross-reactivity: Human
Applications: IHC-P

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

Background:

Prostatic acid phosphatase (PAP) is a glycoprotein enzyme secreted almost exclusively by the columnar epithelial cells of the prostate gland into seminal fluid, where it hydrolyzes phosphate esters to generate free inorganic phosphate and choline, thereby maintaining the optimal acidic pH required for sperm motility and decondensation of sperm chromatin after ejaculation.

PAP is mainly expressed in the prostate. In tumor contexts, PAP has been detected in the prostate cancer.

Immunohistochemical detection of PAP remains a cornerstone of surgical pathology for confirming prostatic origin of poorly differentiated metastatic carcinomas, and more recently its ectoenzymatic activity has been implicated in bone metastasis through dephosphorylation of osteogenic factors, making PAP not only a diagnostic and monitoring tool but also a potential therapeutic target in advanced prostate cancer.

Subcellular location:

Secreted/Membrane/Nucleus/Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

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

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

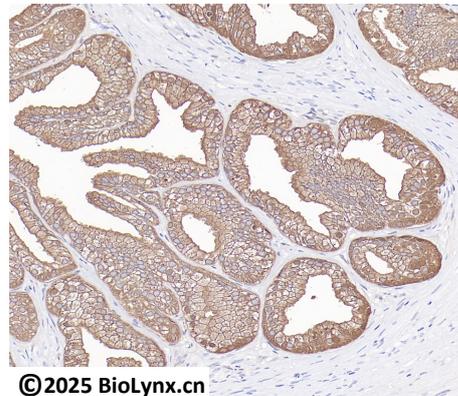
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Xiao, M. et al. (2024) Front Oncol. May 15;14:1398673.
- Jingchao, Wei. et al. (2016) Oncol Lett. Aug 12(2):1019-1022.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate labelling PAP with BP6329.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.