

**Prostatic Acid Phosphatase Antibody**  
Rabbit mAb  
Catalog # AP92053

**Specification**

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**Prostatic Acid Phosphatase Antibody - Product Information**

Application **WB, IHC, ICC, IP**  
Primary Accession **[P15309](#)**  
Clonality **Monoclonal**  
**Other Names**  
5'-NT; 5'-nucleotidase; ACP3; PAP; Prostatic acid phosphatase; TMPase;

Isotype **Rabbit IgG**  
Host **Rabbit**  
Calculated MW **44566 Da**

**Prostatic Acid Phosphatase Antibody - Additional Information**

Purification **Affinity-chromatography**  
Immunogen **A synthesized peptide derived from human PAP ( prostatic acid phosphatase)**  
Description **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.**  
Storage Condition and Buffer **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

**Prostatic Acid Phosphatase Antibody - Protein Information**

Name ACP3 ([HGNC:125](#))

Synonyms ACPP

**Function**

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 (PubMed: [10506173](http://www.uniprot.org/citations/10506173), PubMed: [15280042](http://www.uniprot.org/citations/15280042), PubMed: [20498373](http://www.uniprot.org/citations/20498373), PubMed: [9584846](http://www.uniprot.org/citations/9584846)). Has lipid phosphatase activity and inactivates lysophosphatidic

acid in seminal plasma (PubMed:<a href="http://www.uniprot.org/citations/10506173" target="\_blank">10506173</a>, PubMed:<a href="http://www.uniprot.org/citations/15280042" target="\_blank">15280042</a>).

#### Cellular Location

[Isoform 1]: Secreted

#### Tissue Location

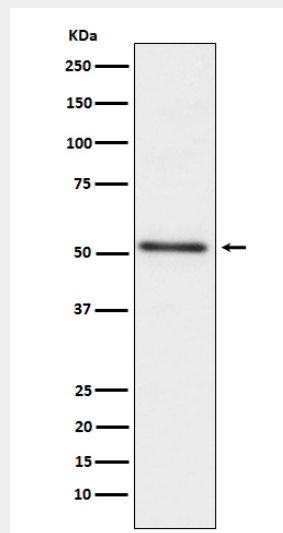
Highly expressed in the prostate, restricted to glandular and ductal epithelial cells. Also expressed in bladder, kidney, pancreas, lung, cervix, testis and ovary. Weak expression in a subset of pancreatic islet cells, squamous epithelia, the pilosebaceous unit, colonic neuroendocrine cells and skin adnexal structures. Low expression in prostate carcinoma cells and tissues

### Prostatic Acid Phosphatase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Prostatic Acid Phosphatase Antibody - Images



Western blot analysis of PAP ( prostatic acid phosphatase) expression in human prostate cancer lysate.