

# Prostatic Acid Phosphatase Antibody

Rabbit mAb

Catalog # AP92053

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">P15309</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	5'-NT; 5'-nucleotidase; ACP3; PAP; Prostatic acid phosphatase; TMPase;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	44566

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human PAP ( prostatic acid phosphatase)
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	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.

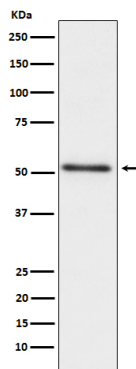
## Protein Information

<b>Name</b>	ACP3 ( <a href="#">HGNC:125</a> )
<b>Synonyms</b>	ACPP
<b>Function</b>	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: <a href="#">10506173</a> , PubMed: <a href="#">15280042</a> , PubMed: <a href="#">20498373</a> , PubMed: <a href="#">9584846</a> ). Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma (PubMed: <a href="#">10506173</a> , PubMed: <a href="#">15280042</a> ).
<b>Cellular Location</b>	[Isoform 1]: Secreted
<b>Tissue Location</b>	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

## Images

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

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