

**ACPP Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2964a

**Specification**

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**ACPP Antibody (internal region) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P15309</a>
Other Accession	<a href="#">NP_001090.2</a> , <a href="#">55</a> , <a href="#">56318 (mouse)</a> , <a href="#">56780 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	44566

**ACPP Antibody (internal region) - Additional Information**

**Gene ID** 55

**Other Names**

Prostatic acid phosphatase, PAP, 3.1.3.2, 5'-nucleotidase, 5'-NT, 3.1.3.5, Ecto-5'-nucleotidase, Thiamine monophosphatase, TMPase, PAPf39, ACPP

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ACPP Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACPP Antibody (internal region) - Protein Information**

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

**Synonyms** ACP3

**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:<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>)

target="\_blank">15280042</a>, PubMed:<a href="http://www.uniprot.org/citations/20498373" target="\_blank">20498373</a>, PubMed:<a href="http://www.uniprot.org/citations/9584846" target="\_blank">9584846</a>). 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

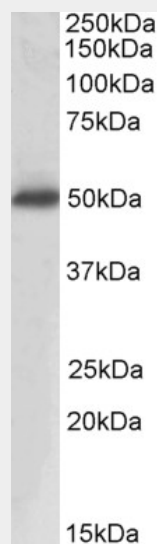
Highly expressed in the prostate, restricted to glandular and ductal epithelial cells. Also expressed in bladder, kidney, pancreas, lung, cervix, testis and ovary. Weak expression in a subset of pancreatic islet cells, squamous epithelia, the pilosebaceous unit, colonic neuroendocrine cells and skin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

### ACPP Antibody (internal region) - Protocols

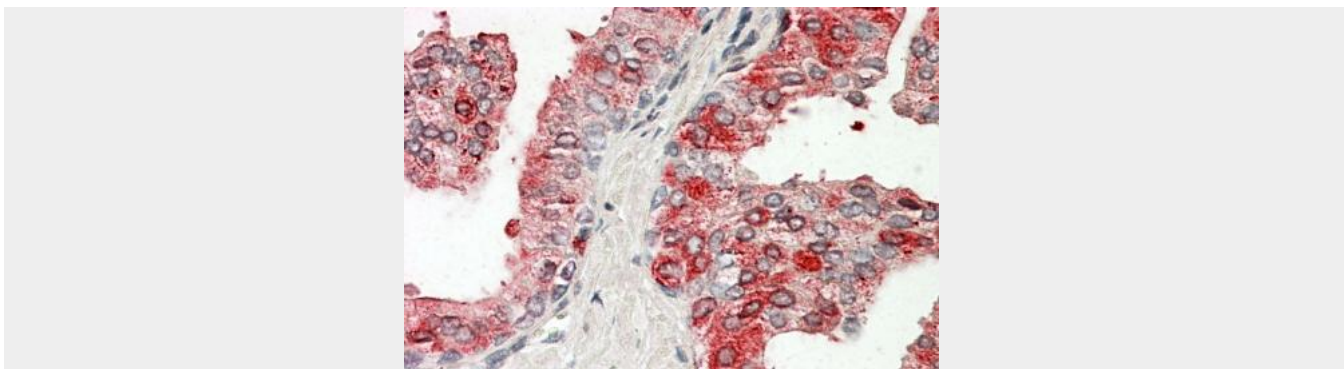
Provided below are standard protocols that you may find useful for product applications.

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

### ACPP Antibody (internal region) - Images



AF2964a (0.3 µg/ml) staining of Human Prostate lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF2964a (3.8 µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **ACPP Antibody (internal region) - Background**

This antibody is expected to recognize both isoforms (NP\_001090.2; NP\_001127666.1).

#### **ACPP Antibody (internal region) - References**

Prostatic acid phosphatase is not a prostate specific target. Quintero IB, Araujo CL, Pulkka AE, Wirkkala RS, Herrala AM, Eskelinen EL, Jokitalo E, Hellström PA, Tuominen HJ, Hirvikoski PP, Vihko PT. Cancer research 2007 Jul 67 (14): 6549-54. PMID: 17638863