

**ACPP / PAP Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS15366****Specification**

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**ACPP / PAP Antibody (Internal) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P15309</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	45kDa KDa

**ACPP / PAP Antibody (Internal) - 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

**Target/Specificity**

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

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

ACPP / PAP Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACPP / PAP Antibody (Internal) - 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) target="\_blank">10506173</a>, PubMed: [15280042](http://www.uniprot.org/citations/15280042) target="\_blank">15280042</a>, PubMed: [20498373](http://www.uniprot.org/citations/20498373) target="\_blank">20498373</a>, PubMed: [9584846](http://www.uniprot.org/citations/9584846) target="\_blank">9584846</a>). Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma (PubMed: [10506173](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

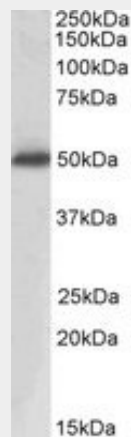
Highly expressed in the prostate, restricted to glandular and ductal epithelial cells. Also expressed in bladder, kidney, pancreas, lung, cervix, testis and ovary. Weak expression in a subset of pancreatic islet cells, squamous epithelia, the pilosebaceous unit, colonic neuroendocrine cells and skin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

#### ACPP / PAP Antibody (Internal) - Protocols

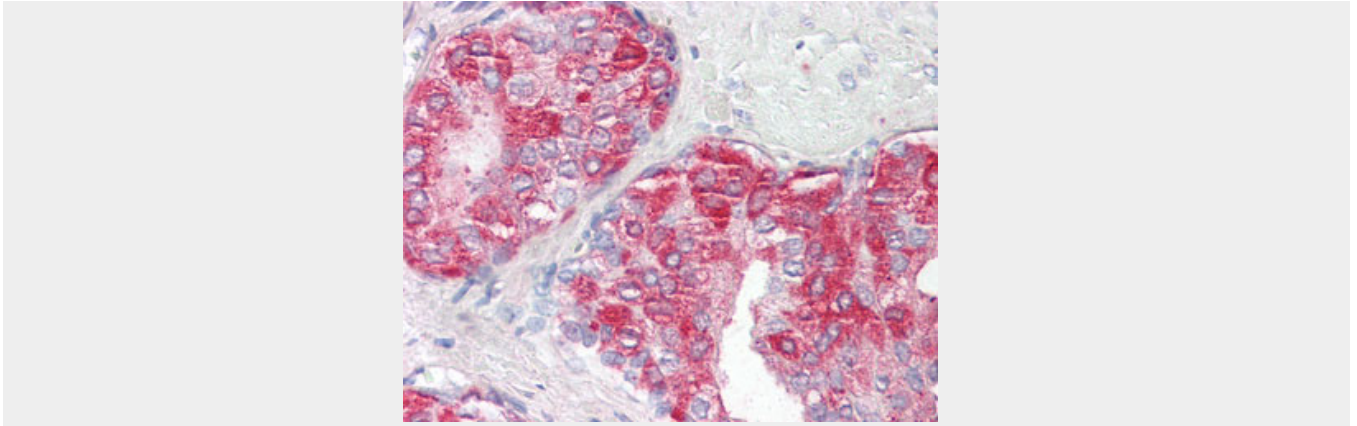
Provided below are standard protocols that you may find useful for product applications.

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

#### ACPP / PAP Antibody (Internal) - Images



ACPP antibody (0.3 ug/ml) staining of Human Prostate lysate (35 ug protein/ml in RIPA buffer).



Anti-ACPP antibody IHC of human prostate.

#### **ACPP / PAP Antibody (Internal) - 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.

#### **ACPP / PAP Antibody (Internal) - References**

- Sharief F.S., et al. *Biochem. Biophys. Res. Commun.* 184:1468-1476(1992).
- van Etten R.L., et al. *J. Biol. Chem.* 266:2313-2319(1991).
- Sharief F.S., et al. *Biochem. Biophys. Res. Commun.* 160:79-86(1989).
- Vihko P., et al. *FEBS Lett.* 236:275-281(1988).
- Tailor P.G., et al. *Nucleic Acids Res.* 18:4928-4928(1990).