

## Rabbit anti-Mouse Prostatic Acid Phosphatase Polyclonal Antibody | anti-ACPP antibody

Anti-Prostatic Acid Phosphatase Antibody, Rabbit Polyclonal

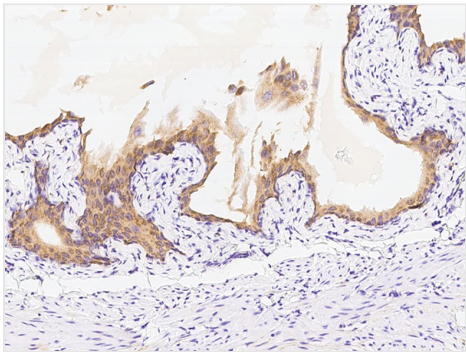
|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA257251</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

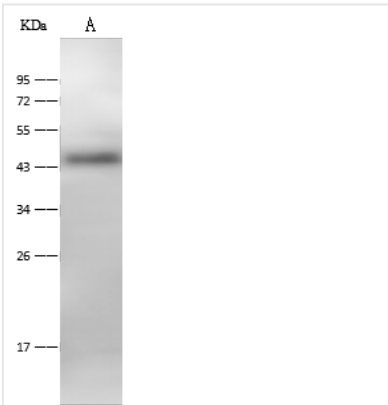
Prostatic Acid Phosphatase; Polyclonal Antibody; Anti-Prostatic Acid Phosphatase Antibody; Rabbit Polyclonal; Prostatic Acid Phosphatase/ACPP Antibody; Rabbit PAb; Antigen Affinity Purified; acid phosphatase; prostate; Anti-5'-NT Antibody; Anti-9.104100899-104272570.1 Antibody; Anti-A030005E02Rik Antibody; Anti-FRAP Antibody; Anti-Lap Antibody; Anti-PAP Antibody; Anti-Ppal Antibody; anti-ACPP antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Mouse                                                                                                                                                                                                                                                                 |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Mouse Prostatic Acid Phosphatase/ACPP                                                                                                                                                                                                                                 |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-ACPP antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                                  |
| Immunogen                                      | Recombinant Mouse Prostatic Acid Phosphatase/ACPP Protein                                                                                                                                                                                                             |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                    | Produced in rabbits immunized with purified, recombinant Mouse Prostatic Acid Phosphatase/ACPP (rM Prostatic Acid Phosphatase/ACPP). Prostatic Acid Phosphatase/ACPP specific IgG was purified by Mouse Prostatic Acid Phosphatase/ACPP affinity chromatography.      |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**IHC (Immunohistochemistry)**  
Immunochemical staining of mouse ACPP in mouse prostate with rabbit polyclonal antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections.



**WB (Western Blot)**  
Anti-CPP rabbit polyclonal antibody at 1:500 dilution  
Lane A: Mouse heart tissue lysate  
Lysates/proteins at 30 ug per lane.  
Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.  
Developed using the ECL technique.  
Performed under reducing conditions.  
Predicted band size: 45 kDa  
Observed band size: 45 kDa

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ACPP antibody | Prostatic acid phosphatase (PAP, or ACPP), also known as prostatic specific acid phosphatase (PSAP), is an enzyme produced by the prostate. As a non-specific phosphomonoesterase, Prostatic acid phosphatase is synthesized and secreted into seminal plasma under androgenic control. The enzyme is a dimer of molecular weight around 100 kDa. Prostatic acid phosphatase is a clinically important protein for its relevance as a biomarker of prostate carcinoma. Furthermore, it has a potential role in fertilization. The major action of PAP is to dephosphorylate macromolecules with the help of catalytic residues (His(12) and Asp(258)) that are located in the cleft between two domains. Cellular prostatic acid phosphatase (cPAP), an authentic tyrosine phosphatase, is proposed to function as a negative growth regulator of prostate cancer (PCa) cells in part through its dephosphorylation of ErbB-2. cPAP functions as a neutral protein tyrosine phosphatase (PTP) in prostate cancer cells and dephosphorylates HER-2/ErbB-2/Neu (HER-2: human epidermal growth factor receptor-2) at the phosphotyrosine (p-Tyr) residues. Injection of the secretory isoform of PAP has potent antinociceptive effects in mouse models of chronic pain. This enzyme exhibits ecto-5'-nucleotidase activity, is widely distributed, and implicated in the formation of chronic pain. Additionally, PAP could be a target molecule in specific immunotherapy for patients with nonprostate adenocarcinomas including colon and gastric cancers. |
| Product Categories/Family for anti-ACPP antibody   | Phosphatases and Regulators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| References                                         | Hassan MI, et al. (2010) Structural and functional analysis of human prostatic acid phosphatase. Expert Rev Anticancer Ther. 10(7): 1055-68.Chuang TD, et al. (2010) Human prostatic acid phosphatase, an authentic tyrosine phosphatase, dephosphorylates ErbB-2 and regulates prostate cancer cell growth. J Biol Chem. 285(31): 23598-606.Larsen RS, et al. (2009) A high throughput assay to identify small molecule modulators of prostatic acid phosphatase. Curr Chem Genomics. 3: 42-9.Zimmermann H. (2009) Prostatic acid phosphatase, a neglected ectonucleotidase. Purinergic Signal. 5(3): 273-5.Wang Y, et al. (2005) Prostatic acid phosphatase as a target molecule in specific immunotherapy for patients with nonprostate adenocarcinoma. J Immunother. 28(6): 535-41.Veeramani S, et al. (2005) Cellular prostatic acid phosphatase: a protein tyrosine phosphatase involved in androgen-independent proliferation of prostate cancer. Endocr Relat Cancer. 12(4): 805-22.Ostrowski WS, et al. (1994) Human prostatic acid phosphatase: selected properties and practical applications. Clin Chim Acta. 226(2): 121-9.                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 46575784    |
| NCBI GeneID               | 56318       |
| NCBI Accession #          | NP_062781.2 |
| NCBI GenBank Nucleotide # | NM_019807.2 |

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| UniProt Accession #              | Q8CE08; Q8C682; Q9QXH7; A4QPG2; B8JJZ5; B8JJZ6 |
| Molecular Weight                 | 47,863 Da                                      |
| NCBI Official Full Name          | prostatic acid phosphatase isoform 2           |
| NCBI Official Synonym Full Names | acid phosphatase, prostate                     |
| NCBI Official Symbol             | Acpp                                           |
| NCBI Official Synonym Symbols    | Lap; PAP; FRAP; Ppal; 5'-NT; A030005E02Rik     |
| NCBI Protein Information         | prostatic acid phosphatase                     |
| UniProt Protein Name             | Prostatic acid phosphatase                     |
| UniProt Gene Name                | <b>Acpp</b>                                    |
| UniProt Synonym Gene Names       | 5'-NT; FRAP; TMPase                            |
| UniProt Entry Name               | PPAP_MOUSE                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/prostatic-acid-phosphatase-antibody-immunohistochemistry-western-blot-elisa/257251>