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ACPP Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7592b

Specification

ACPP Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P15309
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**313-341**

ACPP Antibody (C-term) - Additional Information

Gene ID 55

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

Target/Specificity
This ACPP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 313-341 amino acids from the C-terminal region of human ACPP.

Dilution
WB~~1:500
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
ACPP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACPP Antibody (C-term) - 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, PubMed:15280042, PubMed:20498373, PubMed:9584846). Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma (PubMed:10506173, PubMed:15280042).

Cellular Location
[Isoform 1]: Secreted

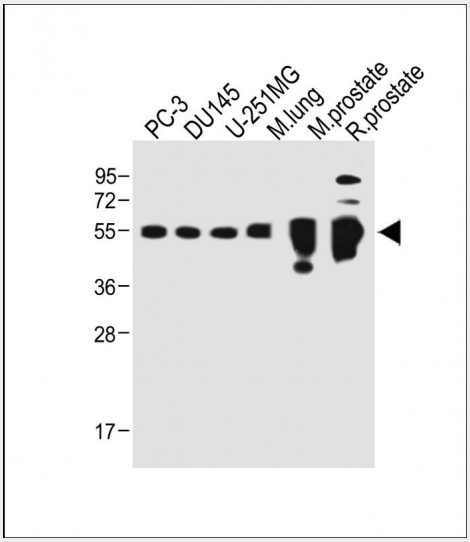
Tissue Location
Highly expressed in the prostate, restricted to glandular and ductal epithelial cells. Also expressed in bladder, kidney, pancreas, lung, cervix, testis and ovary. Weak expression in a subset of pancreatic islet cells, squamous epithelia, the pilosebaceous unit, colonic neuroendocrine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

ACPP Antibody (C-term) - Protocols

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

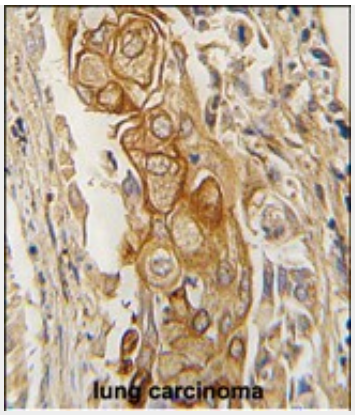
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACPP Antibody (C-term) - Images



All lanes : Anti-ACPP Antibody (C-term) at 1:500 dilution Lane 1: PC-3 whole cell lysate Lane 2: DU145 whole cell lysate Lane 3: U-251MG whole cell lysate Lane 4: Mouse lung whole tissue lysate Lane 5: Mouse prostate whole tissue lysate Lane 5: Rat prostate whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ACPP antibody (C-term) (Cat.#AP7592b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ACPP Antibody (C-term) - Background

ACPP is an enzyme which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is synthesized under androgen regulation and is secreted by the epithelial cells of the prostate gland.

ACPP Antibody (C-term) - References

Quintero,I.B., Cancer Res. 67 (14), 6549-6554 (2007)
Klyushnenkova,E.N., Prostate 67 (10), 1019-1028 (2007)
Johnson,J.L., Biochem. J. 391 (PT 3), 699-710 (2005)