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ACPP Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7592b

Product Information

Application	WB, IHC-P, E
Primary Accession	P15309
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15146
Calculated MW	44566
Antigen Region	313-341

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~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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

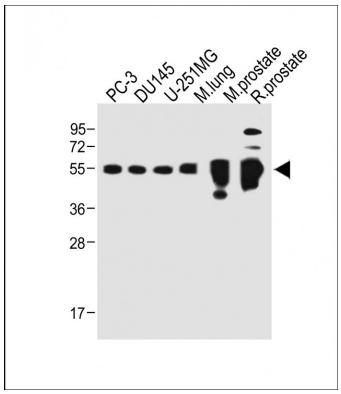
Background

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.

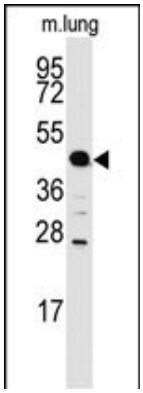
References

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)

Images

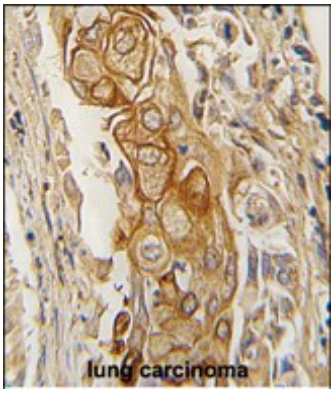


All lanes : Anti-ACPP Antibody (C-term) at 1:500 dilution Lane 1: PC-3 whole cell lysate Lane 2: DU145 whole cell lysate Lane 3: U-251MG whole cell lysate Lane 4: Mouse lung whole tissue lysate Lane 5: Mouse prostate whole tissue lysate Lane 5: Rat prostate whole tissue lysate Lysates/proteins at 20 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.



Western blot analysis of anti-ACPP Antibody (C-term) (Cat.#AP7592b) in mouse lung tissue lysates (35ug/lane). ACPP(arrow) was detected using the purified Pab.

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.