

Rabbit ACPD Polyclonal Antibody | anti-ACPD antibody

ACPD Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326469	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

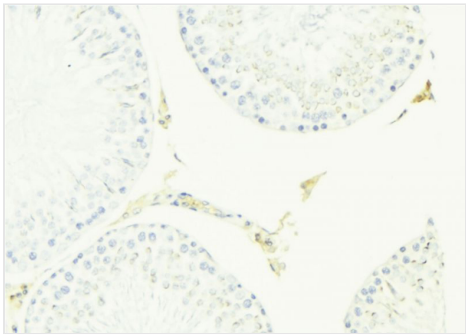
PRODUCT SYNONYMS

ACPD; Polyclonal Antibody; ACPD Antibody; 5'-NT; 5'-nucleotidase; Acid phosphatase prostate; ACP 3; ACP3; acpP; Ecto-5'-nucleotidase; PAP; PPAP_HUMAN; Prostatic acid phosphatase; Prostatic acid phosphatase; Thiamine monophosphatase; TMPase; anti-ACPD antibody

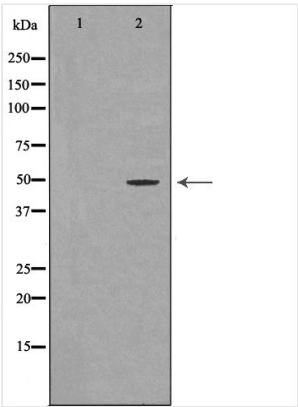
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ACPD antibody detects endogenous levels of total ACPD
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	386
Applicable Applications for anti-ACPD antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ACPD
Subcellular Location	Secreted and Lysosome Membrane. Predominantly localized in the plasma membrane but also detected in intracellular vesicles.
Tissue Specificity	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. Isoform 2 also expressed in the sarcolemma of skeletal muscle. Levels of this cellular isoform decreased in prostate cancer.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (86%), Bovine (86%), Horse (86%), Sheep (86%), Dog (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326469 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of MCF-7, using ACPD antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ACPD antibody	Description: ACPD is also named as PAP(prostatic acid phosphatase), 5'-nucleotidase, thiamine monophosphatase and belongs to the histidine acid phosphatase family. This enzyme is a homodimeric glycoprotein with a subunit molecular mass of 50 kDa and is an androgen-stimulated secretory product of the human prostate gland(PMID:8132635). It is also a non-specific phosphatase and has been implicated in the progression of prostate cancer, which inactivates LPA in human seminal plasma(PMID:15280042). This protein has three glycosylation sites(PMID:10639192; 12525165). This antibody is specific to ACPD. 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. Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma. Subunit Structure: Homodimer; dimer formation is required for phosphatase activity. Post-translational Modifications: N-glycosylated. High mannose content, partially sialylated and fucosylated biantennary complex. Also fucosylated with partially sialylated triantennary complex oligosaccharides. Proteolytically cleaved in seminal fluid to produce several peptides. Peptide PAPf39, the most prominent, forms amyloid beta-sheet fibrils, SEVI (semen-derived enhancer of viral infection) which entrap HIV virions, attach them to target cells and enhance infection. SEVI amyloid fibrils are degraded by polyphenol epigallocatechin-3-gallate (EGCG), a constituent of green tea. Target cell attachment and enhancement of HIV infection is inhibited by surfen. Also similarly boosts XMRV (xenotropic murine leukemia virus-related virus) infection. Similarity: Belongs to the histidine acid phosphatase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6382064
NCBI GeneID	55
NCBI Accession #	NP_001090.2
NCBI GenBank Nucleotide #	NM_001099.4
UniProt Accession #	P15309; Q5FBY0; Q96KY0; Q96QK9; Q96QM0; D3DNC6
Molecular Weight	Observed: 48 kDa Predicted: 45 kDa
NCBI Official Full Name	prostatic acid phosphatase isoform PAP
NCBI Official Synonym Full Names	acid phosphatase, prostate
NCBI Official Symbol	ACPD
NCBI Official Synonym Symbols	ACP3; 5'-NT; ACP-3
NCBI Protein Information	prostatic acid phosphatase

UniProt Protein Name	Prostatic acid phosphatase
UniProt Gene Name	ACPP
UniProt Synonym Gene Names	PAP; 5'-NT; TMPase

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/acpp-antibody-immunohistochemistry-western-blot-elisa/326469>