

ARG65247 anti-ACPP antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ACPP
Tested Reactivity	Hu, Ms
Predict Reactivity	Cow, Rat, Dog
Tested Application	ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognize both isoforms (NP_001090.2; NP_001127666.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ACPP
Species	Human
Immunogen	C-YGIHKQKEKSRLLQ
Conjugation	Un-conjugated
Alternate Names	PAP; ACP-3; TMPase; 5'-nucleotidase; ACP3; EC 3.1.3.5; Ecto-5'-nucleotidase; Thiamine monophosphatase; EC 3.1.3.2; 5'-NT; Prostatic acid phosphatase

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	3 - 5 µg/ml
	WB	0.3 - 1 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human prostate	
Observed Size	~ 50 kDa	

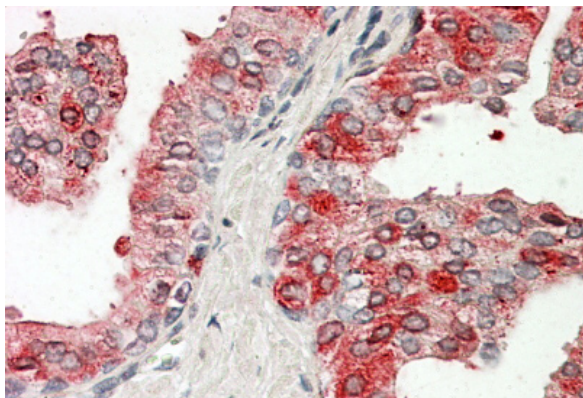
Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide

Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

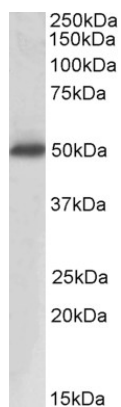
Bioinformation

Database links	GeneID: 55 Human GeneID: 56318 Mouse Swiss-port # P15309 Human Swiss-port # Q8CE08 Mouse
Background	ACPP is an enzyme that 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. An alternatively spliced transcript variant encoding a longer isoform has been found for this gene. This isoform contains a transmembrane domain and is localized in the plasma membrane-endosomal-lysosomal pathway. [provided by RefSeq, Sep 2008]
Function	<p>ACPP is a non-specific tyrosine phosphatase. It 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.</p> <p>Isoform 2: the cellular form also has ecto-5'-nucleotidase activity in dorsal root ganglion (DRG) neurons. Generates adenosine from AMP which acts as a pain suppressor. Acts as a tumor suppressor of prostate cancer through dephosphorylation of ERBB2 and deactivation of MAPK-mediated signaling. [UniProt]</p>
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody
Calculated Mw	45 kDa
PTM	<p>N-glycosylated. High mannose content, partially sialylated and fucosylated biantennary complex. Also fucosylated with partially sialylated triantennary complex oligosaccharides.</p> <p>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.</p>



ARG65247 anti-ACPP antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG65247 anti-ACPP antibody at 3.8 $\mu\text{g}/\text{ml}$ dilution, followed by AP-staining.



ARG65247 anti-ACPP antibody WB image

Western blot: 35 μg of Human prostate lysate (in RIPA buffer) stained with ARG65247 anti-ACPP antibody at 0.3 $\mu\text{g}/\text{ml}$ dilution and incubated at RT for 1 hour.