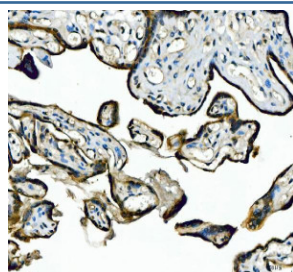


ACP3 Antibody / Prostatic Acid Phosphatase Antibody (RQ6919)

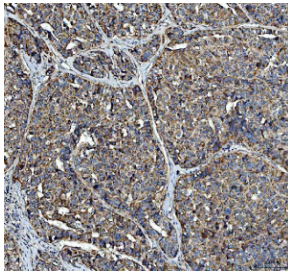
Catalog No.	Formulation	Size
RQ6919	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

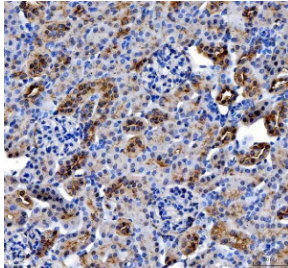
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P15309
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This ACP3 antibody is available for research use only.



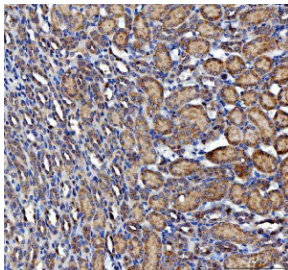
ACP3 Antibody Human Placenta IHC. Immunohistochemical staining of FFPE human placenta tissue using ACP3 Antibody / Prostatic Acid Phosphatase Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed using pH 8.0 EDTA buffer, followed by HRP-conjugated secondary antibody detection and DAB chromogen. Distinct membranous and cytoplasmic staining is observed in placental trophoblasts, consistent with ACP3 expression in placental tissue. This ACP3 Antibody, also called Prostatic Acid Phosphatase Antibody, is suitable for studies of phosphatase expression, reproductive biology, epithelial differentiation, and ACP3 protein localization.



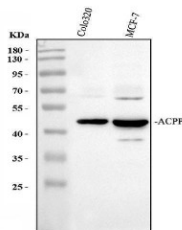
ACP3 Antibody Human Liver Cancer IHC. Immunohistochemical staining of FFPE human liver cancer tissue using ACP3 Antibody / Prostatic Acid Phosphatase Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed using pH 8.0 EDTA buffer, followed by HRP-conjugated secondary antibody detection and DAB chromogen. Moderate to strong cytoplasmic staining is observed within the tumor cells, consistent with the expected localization of prostatic acid phosphatase. This ACP3 Antibody, also called Prostatic Acid Phosphatase Antibody, is suitable for studies of phosphatase expression, prostate biology, epithelial differentiation, and ACP3 protein localization in normal and neoplastic tissues.



ACP3 Antibody Mouse Kidney IHC. Immunohistochemical staining of FFPE mouse kidney tissue using ACP3 Antibody / Prostatic Acid Phosphatase Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed using pH 8.0 EDTA buffer, followed by HRP-conjugated secondary antibody detection and DAB chromogen. Prominent cytoplasmic staining is observed in renal tubular epithelial cells, while glomeruli show little to no staining, consistent with a tissue-specific expression pattern. This ACP3 Antibody, also called Prostatic Acid Phosphatase Antibody, is suitable for studies of phosphatase expression, epithelial biology, renal physiology, and ACP3 protein localization.



ACP3 Antibody Rat Kidney IHC. Immunohistochemical staining of FFPE rat kidney tissue using ACP3 Antibody / Prostatic Acid Phosphatase Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed using pH 8.0 EDTA buffer, followed by HRP-conjugated secondary antibody detection and DAB chromogen. Moderate to strong cytoplasmic staining is observed in renal tubular epithelial cells, while surrounding stromal regions show minimal staining, consistent with tissue-specific ACP3 expression. This ACP3 Antibody, also called Prostatic Acid Phosphatase Antibody, is suitable for studies of phosphatase expression, epithelial biology, renal physiology, and ACP3 protein localization.



ACP3 Antibody Human COLO320 and MCF-7 Cell WB. Western blot analysis of human COLO320 (lane 1) and MCF-7 (lane 2) whole cell lysates using ACP3 Antibody / Prostatic Acid Phosphatase Antibody at 0.5 ug/ml. A specific band was detected at approximately 45-50 kDa, consistent with the expected molecular weight of ACP3 (approximately 45 kDa). This ACP3 Antibody, also called Prostatic Acid Phosphatase Antibody, is suitable for studies of prostatic acid phosphatase expression, prostate biology, phosphatase activity, epithelial differentiation, and ACP3 protein localization.

Description

ACP3 Antibody / Prostatic Acid Phosphatase Antibody recognizes acid phosphatase 3 (ACP3), an enzyme also known as prostatic acid phosphatase (PAP). ACP3 is a secreted glycoprotein with phosphatase activity that is highly expressed by normal prostate epithelial cells and is involved in the hydrolysis of phosphate-containing substrates. Although initially characterized as a prostate-specific enzyme, ACP3 is also detected in selected non-prostatic tissues, where it participates in cellular signaling and phosphatase-dependent biological processes. ACP3 has long served as a widely studied marker of prostate biology and remains an important target in both basic and translational research.

Prostatic acid phosphatase is synthesized primarily by secretory epithelial cells of the prostate and is released into prostatic fluid. The enzyme has been implicated in reproductive physiology, regulation of extracellular phosphate metabolism, and modulation of cellular signaling pathways. In addition to its physiological functions, ACP3 expression has been investigated in prostate development, benign prostatic disease, and prostate cancer, where changes in expression may reflect alterations in cellular differentiation and disease progression.

Beyond the prostate, ACP3 has attracted interest for its reported roles in neuronal function, pain signaling, and immune regulation, expanding its relevance beyond urogenital biology. Ongoing studies continue to explore how ACP3 contributes to tissue-specific physiology and disease mechanisms across multiple organ systems.

An ACP3 Antibody is a valuable research tool for investigating prostatic acid phosphatase expression, prostate biology, phosphatase activity, epithelial differentiation, and disease-associated changes in ACP3 protein localization and expression.

Explore our [Prostate Specific Acid Phosphatase Antibody / Prostate Cancer Marker Antibody](#) page for additional validation data, prostate carcinoma IHC results, and extensive publication support.

Application Notes

Optimal dilution of the ACP3 Antibody should be determined by the researcher.

Immunogen

Recombinant human PAP/ACP3 protein (amino acids E150-D386) was used as the immunogen for the ACP3 antibody.

Storage

After reconstitution, the ACP3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Alternate Names

PAP antibody, Prostatic acid phosphatase antibody, ACP3 antibody, Prostate acid phosphatase antibody, Prostatic acid phosphatase PAP antibody