

## 前列腺酸性磷酸酶抗体

产品货号： mlR6293

英文名称： Prostatic Acid Phosphatase

中文名称： 前列腺酸性磷酸酶抗体

别名： Acid phosphatase prostate; ACP 3; ACP3; ACP3; Ecto-5'-nucleotidase; PAP; PPAP\_HUMAN;  
Prostatic acid phosphatase; Thiamine monophosphatase; TMPase; 5'-NT; 5'-nucleotidase.

研究领域： 肿瘤 细胞生物 激酶和磷酸酶 肿瘤细胞生物标志物

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Horse,

产品应用： WB=1:500-2000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量：41kDa

细胞定位：细胞膜 分泌型蛋白

性状：Lyophilized or Liquid

浓度：1mg/ml

免疫原：KLH conjugated synthetic peptide derived from human Prostatic Acid Phosphatase:21-120/386

亚型：IgG

纯化方法：affinity purified by Protein A

储存液：0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件：Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed：PubMed

产品介绍：Prostatic Acid Phosphatase is Belongs to the histidine acid phosphatase family. Cellular localization; Secreted and Lysosome membrane. Predominantly localized in the plasma membrane but also

detected in intracellular vesicles.

**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:**

Homodimer; dimer formation is required for phosphatase activity.

**Subcellular Location:**

Isoform 1: Secreted. Isoform 2: Cell membrane.

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.

**Tissue Specificity:**

Highly expressed in the prostate, restricted to glandular and ductal epithelial cells.

**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.

**SWISS:**

P24666

**Gene ID:**

55

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**产品图片**

