SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Prostatic Acid Phosphatase antibody

Catalog Number: SL6293R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Prostatic Acid Phosphatase
Immunogen:	KLH conjugated synthetic peptide derived from human Prostatic Acid Phosphatase: 21-120/386
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat, Dog, Horse)
Predicted MW.:	41kDa
Subcellular Location:	The cell membrane Secretory protein
Background:	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

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

	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. **Database links:** **Entrez Gene:** 504700 Cow **Entrez Gene:** 55 Human **Entrez Gene:** 56318 Mouse **Entrez Gene:** 56780 Rat Omim: 171790 Human **SwissProt:** A6H730 Cow **SwissProt:** P15309 Human **SwissProt:** Q8CE08 Mouse **SwissProt:** P20646 Rat **Unigene:** 433060 Human **Unigene:** 19941 Mouse **Unigene:** 40121 Rat

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

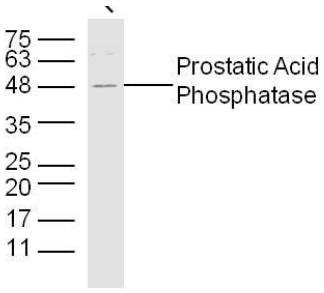
SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

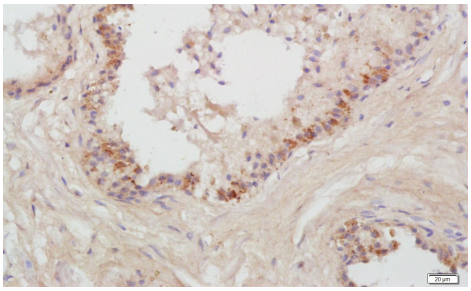
E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

[VALIDATION IMAGES]



Sample: PC3 Cell (Human) Lysate at 40 ug
Primary: Anti-Prostatic Acid Phosphatase (SL6293R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 41 kD
Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (Human prostate); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Prostatic Acid Phosphatase) Polyclonal Antibody, Unconjugated (SL6293R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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