

# **ACPT Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58412

### **Product Information**

**Application** WB, IHC-P, IHC-F, IF, E

Primary Accession

Reactivity

Rat, Dog

Host

Clonality

Polyclonal

Calculated MW

Physical State

Q9BZG2

Rat, Dog

Rabbit

Polyclonal

Liquid

Immunogen KLH conjugated synthetic peptide derived from human ACPT

**Epitope Specificity** 65-160/437 **Isotype** IgG

**Purity** affinity purified by Protein A

SUBCELLULAR LOCATION

**SIMILARITY** 

**Buffer** 

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Membrane; Single-pass type II membrane protein (Potential). Belongs to the peptidase S1 family.Contains 1 LDL-receptor class A domain.Contains 1 peptidase S1 domain.Contains 1 SRCR domain.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** Acid phosphatases are enzymes capable of hydrolyzing orthophosphoric acid

esters in an acid medium. This gene is upregulated by androgens and is down-regulated by estrogens in the prostate cancer cell line. ACPT

dephosphorylates receptor tyrosine-protein kinase erbB-4 and inhibits the ligand-induced proteolytic cleavage. ACPT is predominantly expressed in testis but exhibits a lower level of expression in testicular cancer tissues than in normal tissues. ACPT has structural similarity to prostatic and lysosomal acid phosphatases. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.

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#### **Additional Information**

**Gene ID** 93650

Other Names Testicular acid phosphatase, 3.1.3.2, Acid phosphatase 4

{ECO:0000312 | HGNC:HGNC:14376}, ACP4 (HGNC:14376)

Target/Specificity High levels in pancreatic, gastric, colorectal and ampullary cancer. Very weak

expression in normal gastrointestinal and urogenital tract.

**Dilution** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.2

ug/test,ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

#### **Protein Information**

Name ACP4 ( <u>HGNC:14376</u>)

**Function** May dephosphorylate receptor tyrosine-protein kinase ERBB4 and inhibits

its ligand-induced proteolytic cleavage (PubMed: 15219672). May play a role in

odontogenesis (PubMed: 27843125).

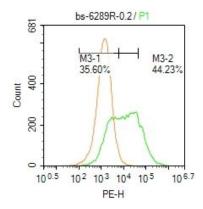
**Cellular Location** Membrane; Single-pass type I membrane protein

**Tissue Location** Expressed mainly in the testis. Also expressed in the brain where they are

enriched at the postsynaptic sites. Expressed at lower levels in the trachea, prostate, bone marrow, spinal cord, colon, fetal brain, heart, thymus, fetal liver, spleen, leukocytes, ovary, small intestine, pancreas and skeletal muscle. Expression is significantly lower in testicular cancer tissues than in normal testicular tissues. Isoform 3 is expressed in the testis, trachea, prostate and

bone marrow.

## **Images**



Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-ACPT antibody (AP58412)

Dilution: 1 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-PE

Dilution: 0.2 µg /test.

Protocol

The cells were incubated in 5 %BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.