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ACPT Rabbit pAb

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Catalog # AP58412

Product Information

Primary Accession	Q9BZG2
Reactivity	Human
Predicted	Rat, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46090
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ACPT
Epitope Specificity	65-160/437
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type II membrane protein (Potential).
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.

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)
Dilution	Flow-Cyt=0.2ug/test
Storage	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.

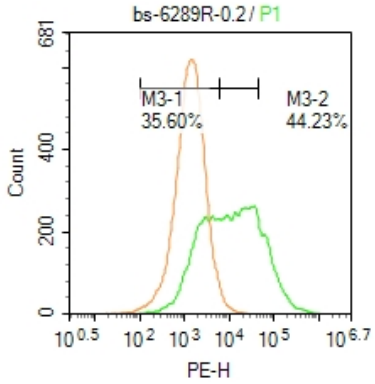
Protein Information

Name	ACP4 (HGNC:14376)
Function	Protein tyrosine phosphatase that dephosphorylates the receptor tyrosine-protein kinase ERBB4, thereby inhibiting its ligand- induced proteolytic cleavage (PubMed:15219672). Involved in odontogenesis (PubMed:27843125). Regulates odontoblast cell fate via its extracellular catalytic domain by inhibiting proliferation and promoting differentiation (By similarity).
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.

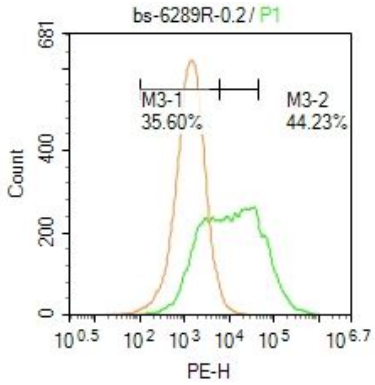
Background

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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.



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