SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ACP5 antibody

Catalog Number: SL6434R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ACP5
Immunogen:	KLH conjugated synthetic peptide derived from human TRAP/Tartrate Resistant Acid Phosphatase: 101-200/325
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 Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Pig,Horse,Rabbit)
Predicted MW.:	34kDa
Subcellular Location:	cytoplasmic
Background:	Tartrate-resistant acid phosphatase is an iron containing glycoprotein that catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. TRAP is the most basic of the acid phosphatases and is the only form not inhibited by L+-tartrate. TRAP is a relatively minor lysosomal enzyme which may be activated in certain pathologies such as Hodgkin's disease and B- and T-cell leukemias. Receptor activator of NFκB ligand (RANKL) plays an essential role in osteoclast differentiation and activation by increasing the expression of protease osteoclast markers such as TRAP. TRAP has collagenolytic activity and plays a major role in ligament degradation. **Function:** Involved in osteopontin/bone sialoprotein dephosphorylation. Its expression seems to increase in certain pathological states such as Gaucher and Hodgkin diseases, the hairy cell, the B-cell, and the T-cell leukemias. **Subunit:** Exists either as monomer or, after proteolytic processing, as a dimer

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	of two chains linked by disulfide bond(s). **Subcellular Location:** Lysosome. DISEASE: Defects in ACP5 are the cause of spondyloenchondrodysplasia with immune dysregulation (SPENCDI) [MIM:607944]. A disease characterized by vertebral and metaphyseal dysplasia, spasticity with cerebral calcifications, and strong predisposition to autoimmune diseases. The skeletal dysplasia is characterized by radiolucent and irregular spondylar and metaphyseal lesions that represent islands of chondroid tissue within bone. Note=ACP5 inactivating mutations result in a functional excess of phosphorylated osteopontin causing deregulation of osteopontin signaling and consequential autoimmune disease. **Similarity:** elongs to the metallophosphoesterase superfamily. Purple acid phosphatase family. **Database links:** **Entrez Gene:** 54 Human **Entrez Gene:** 11433 Mouse **Entrez Gene:** 25732 Rat Omim: 171640 Human **SwissProt:** P13686 Human **SwissProt:** Q05117 Mouse **SwissProt:** P29288 Rat **Unigene:** 1211 Human **Unigene:** 46354 Mouse **Unigene:** 171928 Rat Tartrate-Resistant Acid Phosphatase (TRAP) is an important Maker of osteoclast function, and its activity is positively correlated with osteoclast activity.

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[VALIDATION IMAGES]

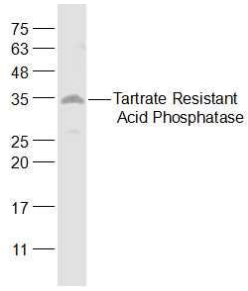


Figure 1. Sample: MOLT-4(Human) Cell Lysate at 30 ug Primary: Anti-Tartrate Resistant Acid Phosphatase (SL6434R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 35 kD

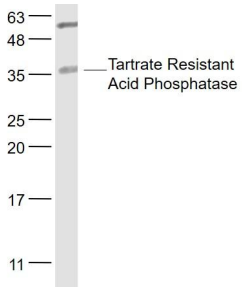


Figure 2. Sample: Liyer(Mouse) Cell Lysate at 40 ug Primary: Anti-Tartrate Resistant Acid Phosphatase (SL6434R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 35 kD

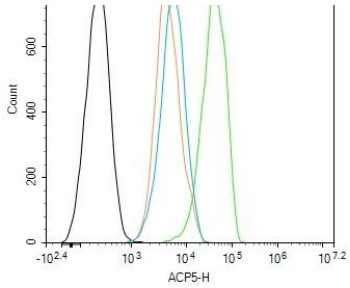


Figure 3. Blank control (black line) :Hela. Primary Antibody (green line): Rabbit Anti-ACP5 antibody (SL6434R) Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-BF488 Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min 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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