SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Tartrate Resistant Acid Phosphatase antibody

Catalog Number: SL22944R

FOR RESEARCH USE ONLY

[DATASHEET]

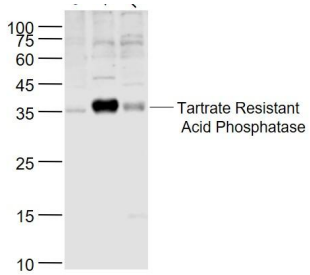
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Tartrate Resistant Acid Phosphatase
Immunogen:	KLH conjugated synthetic peptide derived from human Tartrate Resistant Acid Phosphatase : 211-310/325
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 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 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat)
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 of two chains linked by disulfide bond(s).

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

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	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.

[VALIDATION IMAGES]



Sample:
Lane 1: U251 (Human) Cell Lysate at 30 ug
Lane 2: A549 (Human) Cell Lysate at 30 ug
Lane 3: HepG2 (Human) Cell Lysate at 30 ug

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Primary: Anti-Tartrate Resistant Acid Phosphatase (SL22944R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 36 kD
Observed band size: 36 kD

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