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TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az

Mouse Monoclonal Antibody [Clone ACP5/1070]
Catalog # AH12079

Specification

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Product Information

Application	**,2,3,4,**
Primary Accession	P13686
Other Accession	54, 1211
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG2b, kappa**
Calculated MW	**35kDa KDa**

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Additional Information

Gene ID 54

Other Names
Tartrate-resistant acid phosphatase type 5, TR-AP, 3.1.3.2, Tartrate-resistant acid ATPase, TrATPase, Type 5 acid phosphatase, ACP5

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az is for research use only and not for use in diagnostic or therapeutic procedures.

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Protein Information

Name ACP5

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.

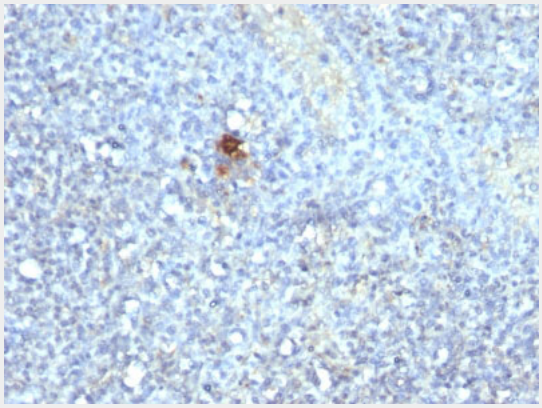
Cellular Location
Lysosome.

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Images



Formalin-fixed, paraffin-embedded human Spleen stained with TRAcP Monoclonal Antibody (ACP5/1070)

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - Background

It recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This MAb reacts with both the isoforms. Serum TRAcP 5a is secreted by macrophages and dendritic cells and increased in many patients of rheumatoid arthritis.ĀSerum TRAcP 5b is produced from osteoclasts and elevated during bone resorption. TRAcP is an iron containing glycoprotein, which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. TRAcP is synthesized as a latent proenzyme and is activated by proteolytic cleavage and reduction. Normally, TRAcP is highly expressed by osteoclasts, activated macrophages, neurons and endometrium during pregnancy. Expression of TRAcP is increased in certain pathological conditions such as Leukemic Reticuloendotheliosis (Hairy Cell Leukemia), Gaucherā€™s Disease, HIV-induced Encephalopathy, Osteoclastoma and in osteoporosis and metabolic bone diseases. Anti-TRAcP antibody labels the cells of Hairy Cell Leukemia (HCL) with a high degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts.

TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody - With BSA and Az - References

Capeller, B., Caffier, H., Søtterlin, M.W. and Dietl, J. 2003. Evaluation of tartrate-resistant acid

phosphatase (TRAP) 5b as serum marker of bone metastases in human breast cancer. Anticancer Res. 23: 1011-1015