

Recombinant TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody

Mouse Monoclonal Antibody [Clone rACP5/1070]

Catalog No	Format	Size
54-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
54-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
54-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

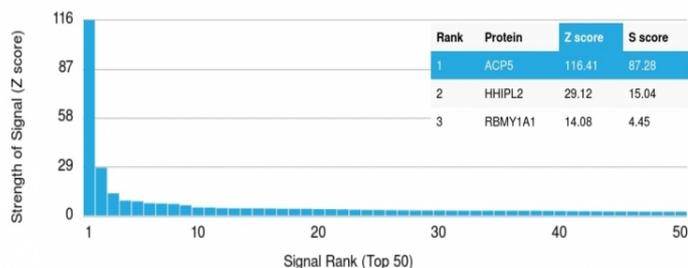
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

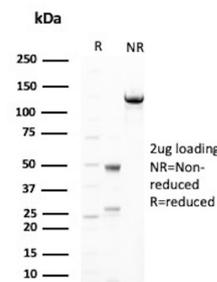
Clone	rACP5/1070
Gene Name	ACP5
Immunogen	Recombinant full-length human ACP5 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	35kDa
Cellular Localization	Lysosome
Species Reactivity	Human, Mouse, Rat
Positive Control	293T, HePG2, K562 or RPMI-8226 cells. Spleen from Hairy Cell Leukemia (HCL) patient.

*Optimal dilution for a specific application should be determined.

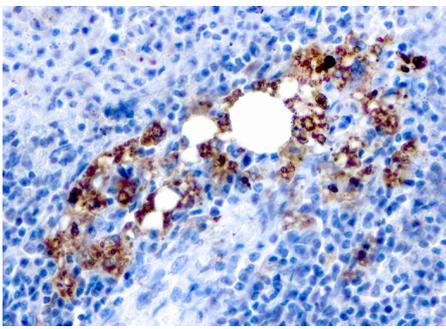
Product Images for Recombinant TRAcP (Tartrate-Resistant Acid Phosphatase) (Hairy Cell Leukemia Marker) Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using TRAcP Mouse Recombinant Monoclonal Antibody (rACP5/1070). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE Analysis of Purified Tartrate-resistant acid phosphatase type 5 Recombinant Mouse Monoclonal Antibody (rACP5/1070). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Spleen stained with TRAcP Mouse Recombinant Monoclonal Antibody (rACP5/1070).

Specificity & Comments

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. Serum 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), Gaucher'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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.