## TRACP Monoclonal Mouse Antibody (ACP5/1070)



## **Product Description**

This antibody recognizes a protein of 35 kDa, 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 antibody labels the cells of hairy cell Edukefina (HCL) with a fight degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1070, Anti-TRAcP (ACP5/1070)

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| Product attributes                    |  |  |  |
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| Antibody number                       | #1070  |  |  |
| Antibody reactivity (target)          | TRAcP  |  |  |
| (target)<br>Antibody type             | Primary  |  |  |
| Host species                          | Mouse  |  |  |
| Clonality                             | Monoclonal   |  |  |
| Clone                                 | ACP5/1070  |  |  |
| Isotype                               | IgG2b, kappa   |  |  |
| Molecular weight                      | 35 kDa   |  |  |
| Synonyms                              | Acid phosphatase 5, tartrate resistant,<br>ACP5, serum band 5 tartrate-resistant<br>acid phosphatase, SPENCDI,<br>Tartrate-resistant acid ATPase,<br>Tartrate-resistant acid phosphatase typ<br>5, TR-AP, TRACP, TRACP5, TRAP,<br>TrATPase, Type 5 acid phosphatase  |  |  |
| Human gene symbol                     | ACP5   |  |  |
| Entrez gene ID                        | 54   |  |  |
| SwissProt                             | P13686   |  |  |
| Unigene                               | 1211   |  |  |
| Immunogen                             | Recombinant full-length human ACP5 protein   |  |  |
| Verified antibody                     | IHC (FFPE) (verified)  |  |  |
| Antibody target cellular              | Lysosomes  |  |  |
| localization<br>Species reactivity    | Human, Mouse, Rat  |  |  |
| Antibody application notes            | Higher concentration may be required 1 direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology formalin-fixed 0.5-1 ug/mL, Staining of formalin-fixed tissue requires boiling tissue sections in 10 m citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minute Flow Cytometry 0.5-1 ug/mllion cells/0 mL, Optimal dilution for a specific application should be determined by user |  |  |
| Positive control                      | HepG2, 293T, K562 or RPMI-8226<br>Cells. Spleen from Hairy Cell Leukemia<br>(HCL) patient.   |  |  |
| Shipping condition                    | Room temperature   |  |  |
| Storage Conditions                    | Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store   |  |  |
|                                       | BSA-free antibodies at -10 to -35 °C   |  |  |
| Shelf life                            | BSA-free antibodies at -10 to -35 °C<br>Guaranteed for at least 24 months from<br>date of receipt when stored as<br>recommended  |  |  |
| Shelf life Regulatory status          | BSÅ-free antibodies at -10 to -35 °C  Guaranteed for at least 24 months from date of receipt when stored as  |  |  |
|                                       | BSÅ-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide. HRP conjugates: 0.1  |  |  |
| Regulatory status  Antibody/conjugate | BSÅ-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide purified, BSA-free: 1 mg/mL in PBS  |  |  |

Call us: 800-304-5357 Email: btinfo@biotium.com

| Antibody # prefix<br>BNC04 | Conjugation<br>CF®405S | Ex/Em (nm)<br>404/431 | <b>Laser line</b><br>405 | <b>Detection channel</b><br>DAPI (microscopy),<br>AF405 | Dye Features <a href="mailto:CF®405S Features">CF®405S Features</a> |
|----------------------------|------------------------|-----------------------|--------------------------|---|---|
| BNC88                      | CF®488A                | 490/515               | 488                      | GFP, FITC   | CF®488A Features  |
| BNC68                      | CF®568                 | 562/583               | 532, 561                 | RFP, TRITC  | CF®568 Features   |
| BNC94                      | CF®594                 | 593/614               | 561                      | Texas Red®  | CF®594 Features   |
| BNC40                      | CF®640R                | 642/662               | 633-640                  | Cy®5  | CF®640R Features  |
| BNC47                      | CF®647                 | 650/665               | 633-640                  | Cy®5  | CF®647 Features   |
| BNCB                       | Biotin                 | N/A                   | N/A                      | N/A   |   |
| BNUB                       | Purified               | N/A                   | N/A                      | N/A   |   |
| BNUM                       | Purified,              | N/A                   | N/A                      | N/A   |   |

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