

# Product Datasheet

## TRACP/PAP/ACP5 Antibody (ACP5/1070) [FITC] NBP2-47666F

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-47666F**

TRACP/PAP/ACP5 Antibody (ACP5/1070) [FITC]

| Product Information |   |
|---------------------|---|
| Unit Size           | 0.1 ml  |
| Concentration       | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage             | Store at 4C in the dark.  |
| Clonality           | Monoclonal  |
| Clone               | ACP5/1070   |
| Preservative        | 0.05% Sodium Azide  |
| Isotype             | IgG2b Kappa   |
| Conjugate           | FITC  |
| Purity              | Protein A or G purified   |
| Buffer              | PBS   |

| Product Description     |   |
|-------------------------|---|
| Description             | This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.   |
| Host                    | Mouse   |
| Gene ID                 | 54  |
| Gene Symbol             | ACP5  |
| Species                 | Human, Mouse, Rat   |
| Marker                  | Hairy Cell Leukemia Marker  |
| Specificity/Sensitivity | It recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This monoclonal antibody 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), Gauchers 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. |
| Immunogen               | Recombinant full-length human TRACP/PAP/ACP5 protein (Uniprot: P13686)  |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Immunohistochemistry, Immunohistochemistry-Paraffin                    |
| Recommended Dilutions       | Immunohistochemistry, Immunohistochemistry-Paraffin                    |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. |





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### **Products Related to NBP2-47666F**

|               |   |
|---------------|---|
| NBP1-43317F   | Mouse IgG2b Kappa Light Chain Isotype Control (MG2b) [FITC] |
| NBP2-38833PEP | TRACP/PAP/ACP5 Recombinant Protein Antigen                  |
| 210-TA-005    | TNF-alpha [Unconjugated]                                    |
| 3948-AP-010   | TRACP/PAP/ACP5 [Unconjugated]                               |

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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