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# ACP5 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1811a

## Product Information

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|---|---|
| **Application** | WB, FC, E |
| **Primary Accession** | P13686 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 5C5E7 |
| **Isotype** | IgG1 |
| **Calculated MW** | 36599 |
| **Description** | This gene encodes 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. |
| **Immunogen** | Purified recombinant fragment of human ACP5 (AA: 221-325) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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|---|---|
| **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 |
| **Dilution** | WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ACP5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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.

## Background

This gene encodes 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. ;

## References

1. Clin Chim Acta. 2011 May 12;412(11-12):963-9. 2. Eur J Gynaecol Oncol. 2011;32(6):615-8.

## Images

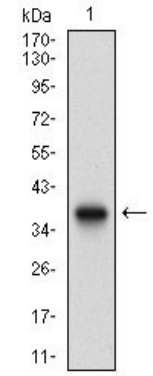



Figure 1: Western blot analysis using ACP5 mAb against human ACP5 recombinant protein. (Expected MW is 37.3 kDa)

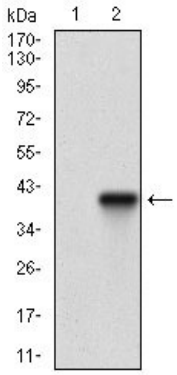



Figure 2: Western blot analysis using ACP5 mAb against HEK293 (1) and ACP5 (AA: 221-325)-hIgGFc transfected HEK293 (2) cell lysate.

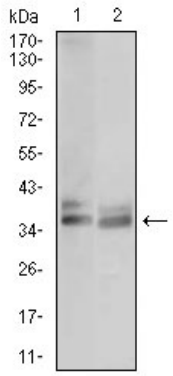
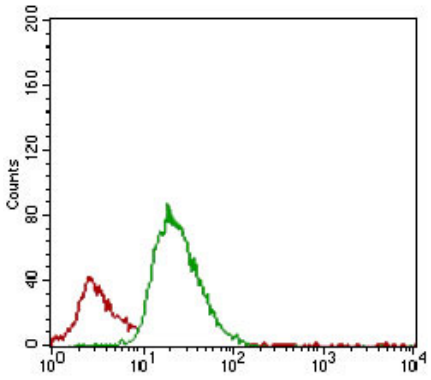



Figure 3: Western blot analysis using ACP5 mouse mAb against JURKAT (1) and OCM-1 (2) cell lysate.

Figure 4: Flow cytometric analysis of JURKAT cells using ACP5 mouse mAb (green) and negative control (red).

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