**Acid Phosphatase Assay Kit (Fluorometric) ab83370**

**Overview**

**Product name**  
Acid Phosphatase Assay Kit (Fluorometric)

**Detection method**  
Fluorescent

**Sample type**  
Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate, Cell culture media

**Assay type**  
Enzyme activity

**Sensitivity**  
0.001 mU/ml

**Product overview**  
Abcam’s Acid Phosphatase Assay Kit (Fluorometric) uses non-fluorescent Methylumbelliferyl phosphate disodium (MUP) as the substrate which has Ex/Em=360/440 nm when dephosphorylated by AP. The kit is an ultra-sensitive, simple, direct and HTS-ready fluorometric assay designed to measure AP activity in serum and other bio-samples. Visit our FAQs page for tips and troubleshooting.

**Notes**  
The detection sensitivity is ~1 µU, more sensitive than colorimetric assays. 
The kit is suitable for both research and drug discovery.

**Platform**  
Microplate reader

**Properties**

**Storage instructions**  
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>500 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Assay buffer</td>
<td>NM</td>
<td>1 x 100ml</td>
</tr>
<tr>
<td>AP Enzyme (Lyophilised)</td>
<td>Green</td>
<td>1 vial</td>
</tr>
<tr>
<td>MUP Substrate</td>
<td>Red</td>
<td>1 vial</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>WM</td>
<td>1 x 25ml</td>
</tr>
</tbody>
</table>

**Relevance**  
Acid phosphatases (AP) dephosphorylate phosphate groups from phosphate esters under acid conditions. Different acid phosphatase isozymes are found in different organs, and their serum levels are used as a diagnostic for disease in the corresponding organs. Elevated prostatic acid phosphatase levels may indicate the presence of prostate cancer and elevated tartrate-resistant acid phosphatase levels may indicate bone disease.

**Cellular localization**  
ACP1: Cytoplasm. ACP2: Lysosome membrane; Single-pass membrane protein. ACP5:

4-Methylumbelliferone (4-MU) Standard Curve.

Functional Studies - Acid Phosphatase Fluorometric Assay Kit (ab83370)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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