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.

Components | Identifier | 500 tests
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AP Assay buffer | NM | 1 x 100ml
AP Enzyme (Lyophilised) | Green | 1 vial
MUP Substrate | Red | 1 vial
Stop Solution | WM | 1 x 25ml

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:

**Images**

4-Methylumbelliferone (4-MU) Standard Curve.

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

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