

# Acid Phosphatase Activity Colorimetric Assay Kit

## Product Information

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### Cat.No.

Kit-0038

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### Product Overview

Phosphate concentrations between 1  $\mu$ M and 1 mM, with a lower limit of detection of approximately 0.1 nmol, can be directly determined. (500 assays) The assay detects acid phosphatase (AP) activity conveniently in various biological samples.

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### Size

500 assays

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### Description

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 the bone disease. Acid Phosphatase Assay Kit is a high sensitivity, simple, direct and HTS-ready colorimetric assay designed to measure AP activity in serum and other samples. It is suitable for research and drug discovery. The Acid Phosphatase Activity kit uses p-nitrophenyl phosphate (pNPP) as a phosphatase substrate which turns yellow ( $\lambda_{max} = 405$  nm) when dephosphorylated by AP. The kit can detect  $\mu$ U acid phosphatase activity in samples.

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### Applications

Phosphate concentrations between 1  $\mu$ M and 1 mM, with a lower limit of detection of approximately 0.1 nmol, can be directly determined.

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### Target Species

Mammalian

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### Usage

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Acid Phosphatase Activity Colorimetric Assay Kit

use.

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### Kit Components

AP Assay Buffer pNPP Substrate (10 TAB) AP Enzyme Stop Solution

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**Detection method** Colorimetric

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### Compatible Sample Types

Cell Culture Supernatants Plasma Serum Tissue Lysates Urine Cell Lysates

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