Product name: Alkaline Phosphatase Assay Kit (Fluorometric) (ab83371)

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

Assay type: Quantitative

Assay time: 1h 00m

Species reactivity: Reacts with: Human

Overview:
Abcam's Alkaline Phosphatase Assay Kit (Fluorometric) (ab83371) is a highly sensitive kit to detect alkaline phosphatase (ALP) activity in serum and other biological samples. In this assay, ALP cleaves the phosphate group of the non-fluorescent 4-Methylumbelliferyl phosphate disodium salt (MUP) substrate, resulting in an increased fluorescent signal (Ex/Em = 360nm/440nm) when the substrate is dephosphorylated. The kit is an ultra sensitive, simple, direct and HTS-ready assay designed to measure ALP activity with a detection sensitivity ~1 µU, more sensitive than colorimetric assays. Visit our FAQs page for tips and troubleshooting.

Notes:
Alkaline phosphatase (ALP) catalyzes the hydrolysis of phosphate esters in alkaline buffer and produces an organic radical and inorganic phosphate. The change in alkaline phosphatase level and activity is associated with a lot of diseases in the liver and bones. Alkaline phosphatase is also a popular enzyme conjugated to secondary antibody in ELISA.

Properties:

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

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

Relevance:
Alkaline phosphatase (ALP) catalyzes the hydrolysis of phosphate esters in alkaline buffer and
produces an organic radical and inorganic phosphate. Changes in alkaline phosphatase level and activity are associated with various disease states in the liver and bone.

**Cellular localization**

Cell membrane; Lipid-anchor, GPI-anchor.

**Images**

**Alkaline phosphatase measured in mouse tissue lysates showing activity (mU) per mg protein of tested sample**

**Alkaline phosphatase measured in biological fluids showing quantity (mU) per microliter of tested sample**

**4-Methylumbelliferone (4-MU) standard curve.**
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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