

## ARG82014 Acid Phosphatase Assay Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG82014 Acid Phosphatase Assay Kit is a detection kit for the quantification of Acid Phosphatase Activity in urine, serum, plasma, tissue extracts, cell lysate and cell culture supernatants.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Acid Phosphatase
Conjugation Note	Read at 510 nm.
Sensitivity	0.04 mmol/L
Detection Range	0.04 - 4 mmol/L
Sample Type	Urine, serum, plasma, tissue extracts, cell lysate and cell culture supernatants.
Sample Volume	10 µl
Alternate Names	Low molecular weight phosphotyrosine protein phosphatase; LMW-PTP; HAAP; Red cell acid phosphatase 1; EC 3.1.3.2; Low molecular weight cytosolic acid phosphatase; Adipocyte acid phosphatase; EC 3.1.3.48; LMW-PTPase

### Application Instructions

Assay Time	15 min
------------	--------

### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	ACP1
Gene Full Name	acid phosphatase 1, soluble
Background	The product of this gene belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2008]

Function	Acts on tyrosine phosphorylated proteins, low-MW aryl phosphates and natural and synthetic acyl phosphates. Isoform 3 does not possess phosphatase activity. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images

---

