

## Recombinant Human ACP1, GST-tagged

**Cat. No.** ACP1-9306H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ACP1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	15-102a.a.
<b>Description</b>	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.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

**Gene Name** [ACP1 acid phosphatase 1, soluble \[ Homo sapiens \]](#)

**Official Symbol** [ACP1](#)

**Synonyms** [ACP1](#); acid phosphatase 1, soluble; low molecular weight phosphotyrosine protein phosphatase; LMW-PTP; LMW-PTPase; adipocyte acid phosphatase; red cell acid phosphatase 1; protein tyrosine phosphatase; acid phosphatase of erythrocyte; cytoplasmic phosphotyrosyl protein phosphatase; low molecular weight cytosolic acid phosphatase; HAAP; MGC3499; MGC111030;

**Gene ID** [52](#)

**mRNA Refseq** [NM\\_001040649](#)

**Protein Refseq** [NP\\_001035739](#)

**MIM** [171500](#)

**UniProt ID** [P24666](#)

**Chromosome Location** [2p25](#)

**Pathway** [Adherens junction, organism-specific biosystem](#); [Adherens junction, conserved biosystem](#); [EPHA2 forward signaling, organism-specific biosystem](#); [PDGFR-beta signaling pathway, organism-specific biosystem](#); [Riboflavin metabolism, organism-specific biosystem](#); [Riboflavin metabolism, conserved biosystem](#); [T Cell Receptor Signaling Pathway, organism-specific biosystem](#);

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**Function**

acid phosphatase activity; hydrolase activity; non-membrane spanning protein  
tyrosine phosphatase activity; protein binding;

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