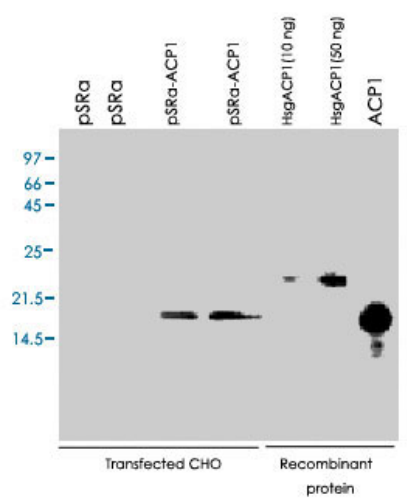
# ACP1 polyclonal antibody

Catalog # PAB14684 Size 100 ug

## Applications




### Western Blot

CHO cells were transfected with either Vector (pSRa) or expressionvector driving expression of ACP1 (pSRa-LMWPTP), and harvested in Triton X-100 lysis buffer at 72 h after transfection. 2 mg of lysate protein was incubated for 1 h with ACP1 polyclonal antibody (Cat # PAB14684), and immuno-precipitated proteins recovered by Protein A/G were separated on PAGE (12%), and ACP1 detected using a mouse anti-sheep monoclonal antibody.

## Specification

| | |
|---|---|
| **Product Description** | Sheep polyclonal antibody raised against partial recombinant ACP1. |
| **Immunogen** | Recombinant His fusion protein corresponding to human ACP1. |
| **Host** | Sheep |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Recommend Usage** | Immunoprecipitation (1 to 10 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.08% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot

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## Gene Info — ACP1

| | |
|---|---|
| **Entrez GeneID** | 52 |
| **Gene Name** | ACP1 |
| **Gene Alias** | HAAP, MGC111030, MGC3499 |
| **Gene Description** | acid phosphatase 1, soluble |
| **Omim ID** | 171500 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 tyros ine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophospho ric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three co mmon alleles segregating at the corresponding locus give rise to six phenotypes. Each allele app ears 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 |
| **Other Designations** | acid phosphatase of erythrocyte\|adipocyte acid phosphatase\|cytoplasmic phosphotyrosyl protein phosphatase\|low molecular weight phosphotyrosine protein phosphatase\|protein tyrosine phosph atase\|red cell acid phosphatase 1 |

## Publication Reference

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- HCPTPA, a protein tyrosine phosphatase that regulates vascular endothelial growth factor receptor-mediated signal transduction and biological activity.

  Huang L, Sankar S, Lin C, Kontos CD, Schroff AD, Cha EH, Feng SM, Li SF, Yu Z, Van Etten RL, Blanar MA, Peters KG.

  The Journal of Biological Chemistry 1999 Dec; 274(53):38183.

  Application: WB-Tr, Human, HUVECs

- Surface densities of ephrin-B1 determine EphB1-coupled activation of cell attachment through alphavbeta3 and alpha5beta1 integrins.

  Huynh-Do U, Stein E, Lane AA, Liu H, Cerretti DP, Daniel TO.

  The EMBO Journal 1999 Apr; 18(8):2165.

- Eph receptors discriminate specific ligand oligomers to determine alternative signaling complexes, attachment, and assembly responses.

  Stein E, Lane AA, Cerretti DP, Schoecklmann HO, Schroff AD, Van Etten RL, Daniel TO.

  Genes & Development 1998 Mar; 12(5):667.

  Application: WB-Ce, Human, Mouse, Human renal microvascular endothelial cells, P19 cells

## Pathway

- Adherens junction
- gamma-Hexachlorocyclohexane degradation
- Riboflavin metabolism

## Disease

- Abortion
- Asthma
- Atherosclerosis
- Attention Deficit Disorder with Hyperactivity
- Birth Weight
- Cardiovascular Diseases
- Colon cancer

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- Colonic Neoplasms
- Coronary Artery Disease
- Crohn Disease
- Dermatitis
- Diabetes
- Diabetes Mellitus
- Diabetic Ketoacidosis
- Edema
- Endometriosis
- Fetal Growth Retardation
- Genetic Predisposition to Disease
- Hyperlipidemias
- Hypersensitivity
- Insulin Resistance
- Leiomyoma
- Liver Cirrhosis
- Lupus Erythematosus
- Malaria
- Neoplasms
- Obesity
- Osteoporosis
- Pregnancy in Diabetics
- Prenatal Exposure Delayed Effects
- Tobacco Use Disorder
- Tourette Syndrome
- Tuberculosis

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- Uterine Neoplasms

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