

## **ACYP1 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant ACYP1.

Catalog # AT1038a

### **Specification**

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#### **ACYP1 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P07311</a>
Other Accession	<a href="#">BC035568</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b kappa
Calculated MW	11261

#### **ACYP1 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 97

##### **Other Names**

Acylphosphatase-1, Acylphosphatase, erythrocyte isozyme, Acylphosphatase, organ-common type isozyme, Acylphosphate phosphohydrolase 1, ACYP1, ACYPE

##### **Target/Specificity**

ACYP1 (AAH35568, 1 a.a. ~ 99 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### **Precautions**

ACYP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

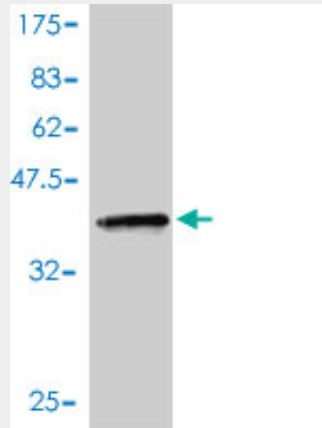
#### **ACYP1 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

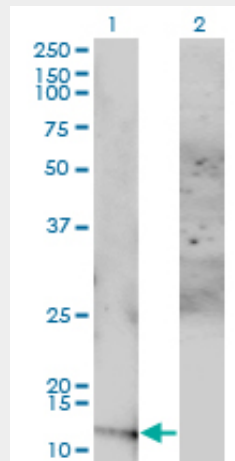
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ACYP1 Antibody (monoclonal) (M01) - Images



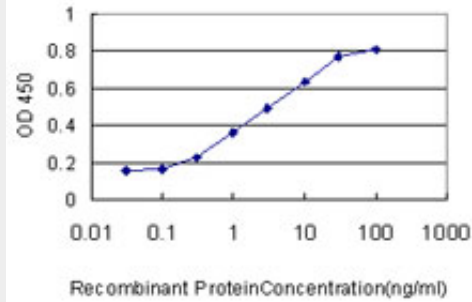
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 kDa) .



Western Blot analysis of ACYP1 expression in transfected 293T cell line by ACYP1 monoclonal antibody (M01), clone 1B2-3A2.

Lane 1: ACYP1 transfected lysate(11.3 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ACYP1 is approximately 0.03ng/ml as a capture antibody.

### **ACYP1 Antibody (monoclonal) (M01) - Background**

Acylphosphatase is a small cytosolic enzyme that catalyzes the hydrolysis of the carboxyl-phosphate bond of acylphosphates. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase, on the basis of their tissue localization. This gene encodes the erythrocyte acylphosphatase isoenzyme. Alternatively spliced transcript variants that encode different proteins were identified through data analysis.

### **ACYP1 Antibody (monoclonal) (M01) - References**

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334. ACYP1 gene possesses two alternative splicing forms that induce apoptosis. Degl'Innocenti D, et al. *IUBMB Life*, 2004 Jan. PMID 14992377. The DNA sequence and analysis of human chromosome 14. Heilig R, et al. *Nature*, 2003 Feb 6. PMID 12508121. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. *Proc Natl Acad Sci U S A*, 2002 Dec 24. PMID 12477932. A nucleophilic catalysis step is involved in the hydrolysis of aryl phosphate monoesters by human CT acylphosphatase. Paoli P, et al. *J Biol Chem*, 2003 Jan 3. PMID 12409302.