

**ACYP2 Antibody (monoclonal) (M06)****Mouse monoclonal antibody raised against a partial recombinant ACYP2.****Catalog # AT1039a****Specification**

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**ACYP2 Antibody (monoclonal) (M06) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P14621</a>
Other Accession	<a href="#">NM_138448</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	11140

**ACYP2 Antibody (monoclonal) (M06) - Additional Information****Gene ID 98****Other Names**

Acylphosphatase-2, Acylphosphatase, muscle type isozyme, Acylphosphate phosphohydrolase 2, ACYP2, ACYP

**Target/Specificity**

ACYP2 (NP\_612457, 1 a.a. ~ 98 a.a) partial 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**

ACYP2 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

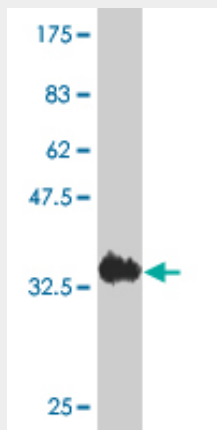
**ACYP2 Antibody (monoclonal) (M06) - Protocols**

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

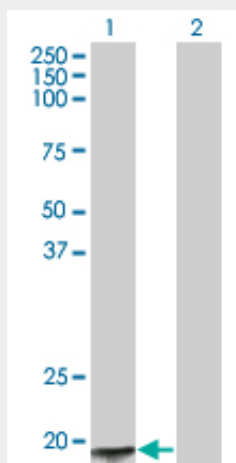
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

#### ACYP2 Antibody (monoclonal) (M06) - Images



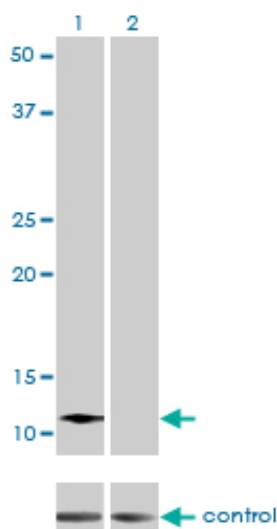
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



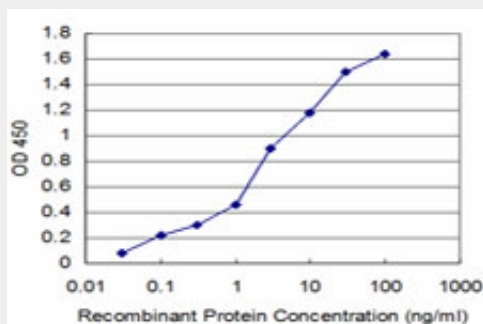
Western Blot analysis of ACYP2 expression in transfected 293T cell line by ACYP2 monoclonal antibody (M06), clone 2H7.

Lane 1: ACYP2 transfected lysate(11.1 KDa).

Lane 2: Non-transfected lysate.



Western blot analysis of ACYP2 over-expressed 293 cell line, cotransfected with ACYP2 Validated Chimera RNAi ( Cat # AT1039a )



Detection limit for recombinant GST tagged ACYP2 is approximately 0.1ng/ml as a capture antibody.

### ACYP2 Antibody (monoclonal) (M06) - Background

Acylphosphatase can hydrolyze the phosphoenzyme intermediate of different membrane pumps, particularly the  $\text{Ca}^{2+}/\text{Mg}^{2+}$ -ATPase from sarcoplasmic reticulum of skeletal muscle. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase on the basis of their tissue localization. This gene encodes the muscle-type isoform (MT). An increase of the MT isoform is associated with muscle differentiation.

### ACYP2 Antibody (monoclonal) (M06) - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315. Assessment of a polymorphism of SDK1 with hypertension in Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296. Mutational analysis of the aggregation-prone and disaggregation-prone regions of acylphosphatase. Calamai M, et al. J Mol Biol, 2009 Apr 10. PMID 18809411. Replication of a genome-wide case-control study of esophageal squamous cell carcinoma. Ng D, et al. Int J Cancer, 2008 Oct 1. PMID 18649358.