

**ACY1 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant ACY1.

Catalog # AT1037a

**Specification**

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**ACY1 Antibody (monoclonal) (M01) - Product Information**

Application	IF, IP, WB, IHC
Primary Accession	<a href="#">Q03154</a>
Other Accession	<a href="#">BC000545</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	45885

**ACY1 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 95**Other Names**

Aminoacylase-1, ACY-1, N-acyl-L-amino-acid amidohydrolase, ACY1

**Target/Specificity**

ACY1 (AAH00545, 1 a.a. ~ 408 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**

ACY1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

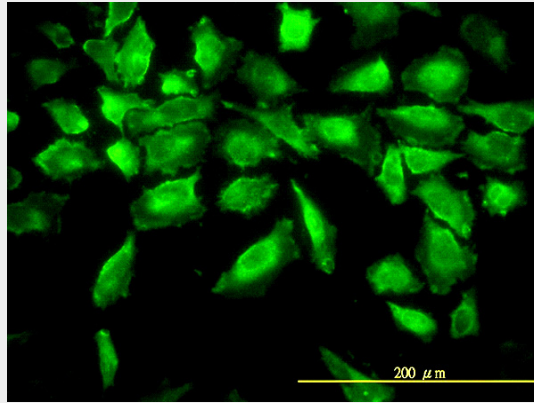
**ACY1 Antibody (monoclonal) (M01) - Protocols**

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

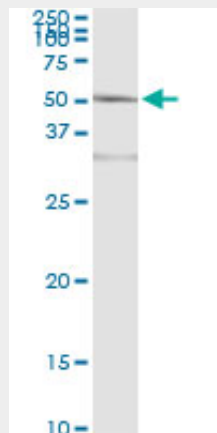
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

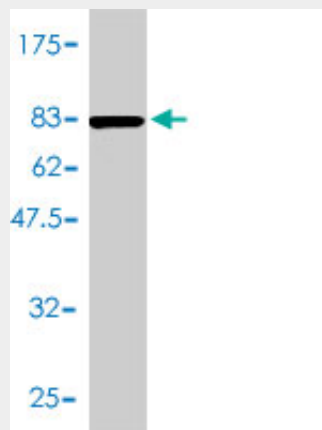
### ACY1 Antibody (monoclonal) (M01) - Images



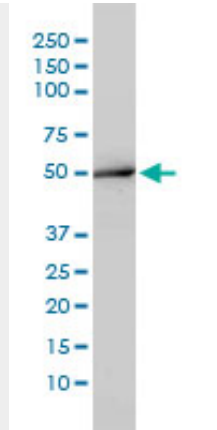
Immunofluorescence of monoclonal antibody to ACY1 on HeLa cell. [antibody concentration 10 ug/ml]



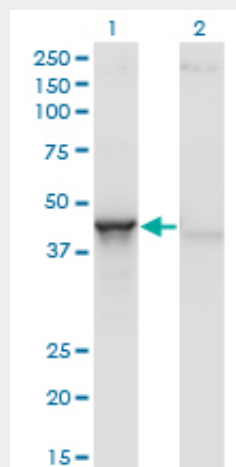
Immunoprecipitation of ACY1 transfected lysate using anti-ACY1 monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with ACY1 MaxPab rabbit polyclonal antibody.



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.62 KDa) .



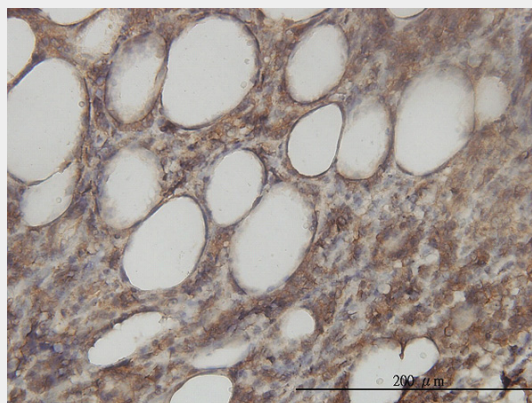
ACY1 monoclonal antibody (M01), clone 4F1-B7. Western Blot analysis of ACY1 expression in K-562 ( (Cat # AT1037a )



Western Blot analysis of ACY1 expression in transfected 293T cell line by ACY1 monoclonal antibody (M01), clone 4F1-B7.

Lane 1: ACY1 transfected lysate(45.9 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to ACY1 on formalin-fixed paraffin-embedded human malignant lymphoma, diffuse large B tissue. [antibody concentration 3 ug/ml]

### **ACY1 Antibody (monoclonal) (M01) - Background**

Aminoacylase-1 is a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. ACY1 has been assigned to chromosome 3p21.1, a region reduced to homozygosity in small-cell lung cancer (SCLC), and its expression has been reported to be reduced or undetectable in SCLC cell lines and tumors. The amino acid sequence of human aminoacylase-1 is highly homologous to the porcine counterpart, and ACY1 is the first member of a new family of zinc-binding enzymes.

#### **ACY1 Antibody (monoclonal) (M01) - References**

1. Profiling of antibody production against xenograft-released proteins by protein microarrays discovers prostate cancer markers. Jansen FH, Rijswijk A, Teubel W, Weerden WM, Reneman S, Bemd GJ, Roobol MJ, Bangma CH, Staal FJ, Jenster G. *J Proteome Res.* 2011 Dec 2.