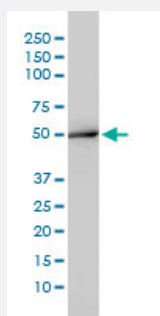


ACY1 monoclonal antibody (M01), clone 4F1-B7

Catalog # H00000095-M01

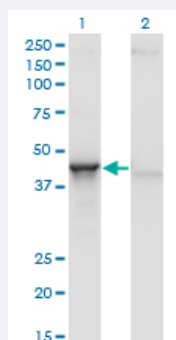
Size 100 ug

Applications



Western Blot (Cell lysate)

ACY1 monoclonal antibody (M01), clone 4F1-B7. Western Blot analysis of ACY1 expression in K-562 (Cat # L009V1).

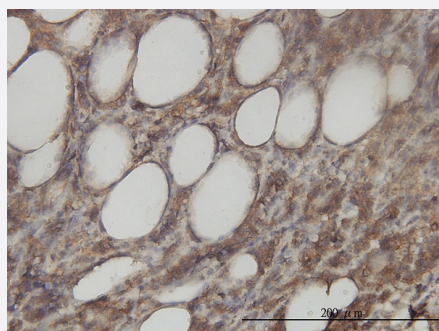


Western Blot (Transfected lysate)

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

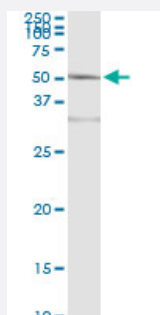
Lane 1: ACY1 transfected lysate(45.9 KDa).

Lane 2: Non-transfected lysate.



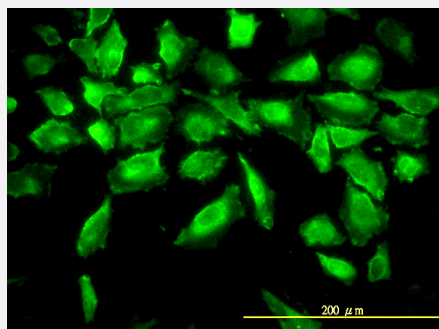
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



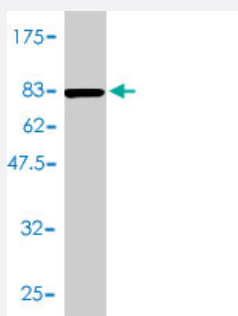
Immunoprecipitation

Immunoprecipitation of ACY1 transfected lysate using anti-ACY1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ACY1 MaxPab rabbit polyclonal antibody.



Immunofluorescence

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



Western Blot detection against Immunogen (70.62 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant ACY1.
Immunogen	ACY1 (AAH00545, 1 a.a. ~ 408 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MTSKGPAEEHPSVTLFRQYLRIQTVQPKPDYGAAVAFFETARQLGLGCQKVEVAPGYVTVLT WPGTNPTLSSILLNSHTDVVPVFKEHWSHDPFEAFKDSGGYYARGAQDVKCVSIQYLEAVRRLK VEGHRFPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSERSP WWWVRTSTGRPGHASRFMEDTAAEKLHKVVNSILAFREKEWQRLQSNPHLKEGSVTSVNLTKLE GGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEGVTLFAQKWMHPQVTPPTDD SNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPAALGFSPMNRTPVLLHDHDERLHEAV FLRGVDIYTRLLPALASVPALPSDS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (85); Rat (87)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.62 KDa) .
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction

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

Applications

- Western Blot (Cell lysate)

ACY1 monoclonal antibody (M01), clone 4F1-B7. Western Blot analysis of ACY1 expression in K-562 (Cat # L009V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of ACY1 transfected lysate using anti-ACY1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ACY1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — ACY1

Entrez GeneID

[95](#)

GeneBank Accession#	BC000545
Protein Accession#	AAH00545
Gene Name	ACY1
Gene Alias	ACY1D, ACYLASE
Gene Description	aminoacylase 1
Omim ID	104620 609924
Gene Ontology	Hyperlink
Gene Summary	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 3p 21.1, 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. [provided by RefSeq]
Other Designations	-

Publication Reference

- [Prodefensin-A6 Assay Method for The In Vitro Diagnosis of Colorectal Cancer.](#)

Yasemin Ataman-Önal, Corinne Beaulieu, Sandrine Busseret, Jean-Philippe Charrier, Geneviève Choquet-Kastylevsky, Dominique Rolland.

United States Patent Application Publication 2012 May; [Epub].

Application: ELISA, Human, Serum

- [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.

Journal of Proteome Research 2012 Feb; 11(2):728.

Application: ELISA, Human, Serum

Pathway

- [Arginine and proline metabolism](#)

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Metabolic pathways](#)