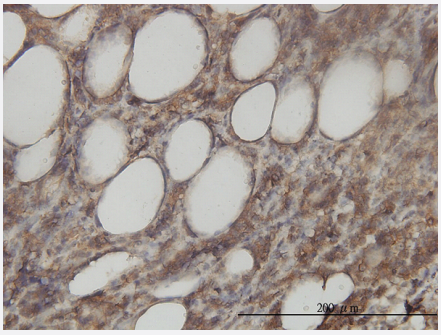
ACY1 monoclonal antibody (M01), clone 4F1-B7

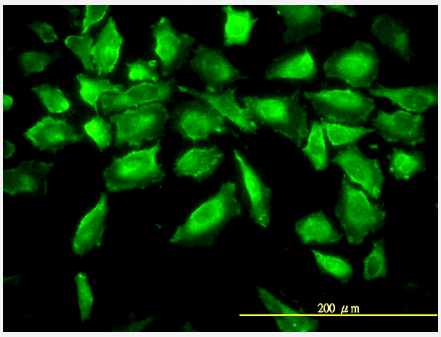
Catalog # H00000095-M01 Size 100 ug

Applications



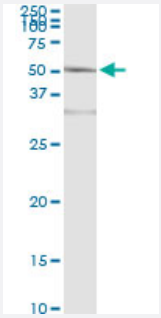
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



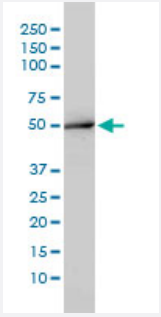
Immunofluorescence

Immunofluorescence of monoclonal antibody to ACY1 on HeLa cell. [antibody concentration 10 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.



Western Blot (Cell lysate)

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

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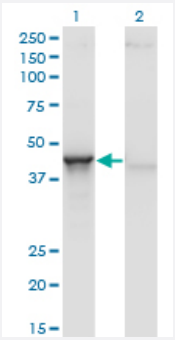
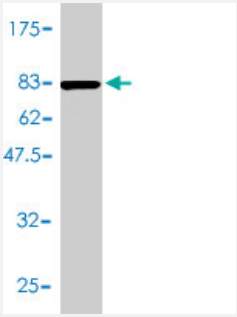


Western Blot (Transfected lysate)

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.



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	MTSKGPAEEHPSVTLFRQYLRIRTVQPKPDYGAAVAFFEETARQLGLGCQKVEVAPGYVVTVLT WPGTNPTLSSILLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDVKCVSIQYLEAVRRLK VEGHRFPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSERSP WWVRVTSTGRPGHASRFMEDTAAEKLHKVVNSILAFREKEWQRLQSNPHLKEGSVTSVNLTKLE GGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEGVTLEFAQKWMHPQVTPTDD SNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPALGFSPMNRTPVLLHDHDERLHEAV 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

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

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  Protocol Download

- Immunofluorescence

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

  Protocol Download

- ELISA

- 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

- 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

Gene Info — ACY1

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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 th e 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 sequ ence 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

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- Biosynthesis of alkaloids derived from ornithine
- Metabolic pathways

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