10320 Camino Santa Fe, Suite G
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ACY1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ACY1.
Catalog # AT1037a

Specification

ACY1 Antibody (monoclonal) (M01) - Product Information

Application	**IF, IP, WB, IHC**
Primary Accession	Q03154
Other Accession	BC000545
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

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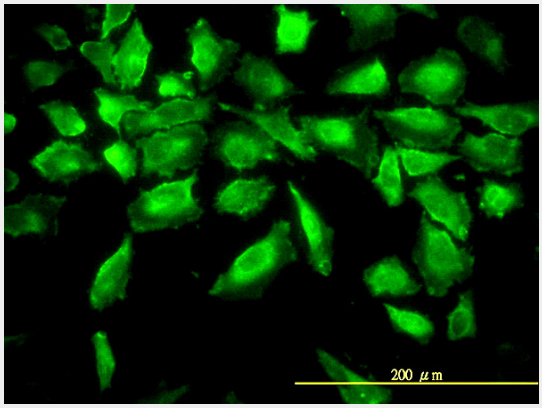
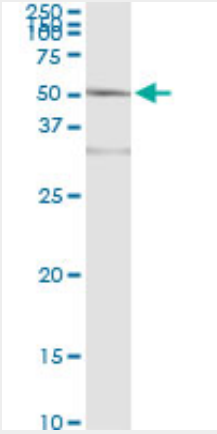
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

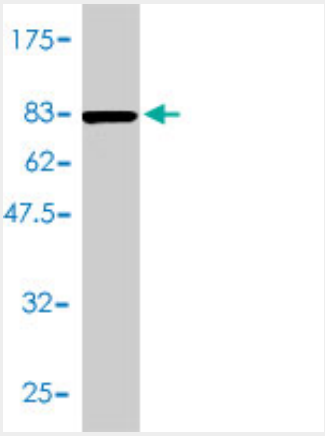
ACY1 Antibody (monoclonal) (M01) - Images



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) .

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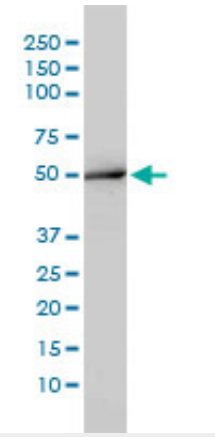
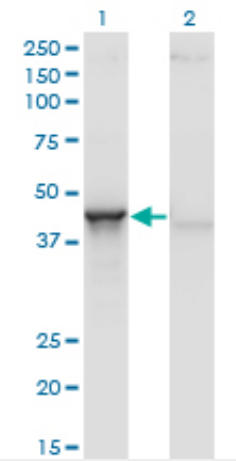
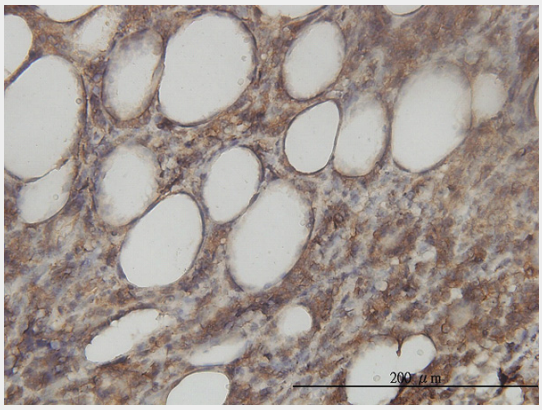


ACY1 monoclonal antibody (M01), clone 4F1-B7. Western Blot analysis of ACY1 expression in K-562 ((Cat # AT1037a)



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

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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.