# ARG57036
# anti-ACY1 / Aminoacylase 1 antibody [1E2]

Package: 50 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody [1E2] recognizes ACY1 / Aminoacylase 1 |
| Tested Reactivity | Hu |
| Tested Application | FACS, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 1E2 |
| Isotype | IgG2b, kappa |
| Target Name | ACY1 / Aminoacylase 1 |
| Species | Human |
| Immunogen | Recombinant fragment around aa. 1-408 of Human Aminoacylase 1. |
| Conjugation | Un-conjugated |
| Alternate Names | ACY-1; N-acyl-L-amino-acid amidohydrolase; ACY1D; EC 3.5.1.14; HEL-S-5; Aminoacylase-1 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| FACS | Assay-dependent |
| WB | 1:250 - 1:500 |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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|---|---|
| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 10% Glycerol |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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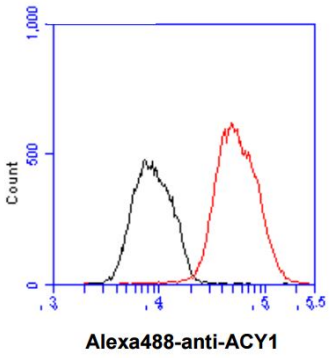
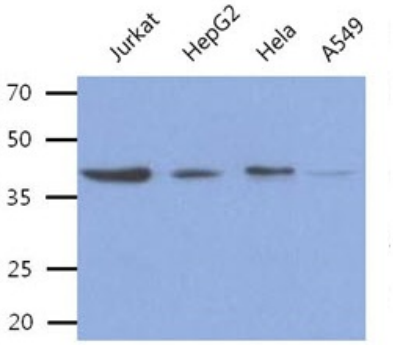
|---|---|
| Database links | GeneID: 95 Human<br><br>Swiss-port # Q03154 Human |
| Gene Symbol | ACY1 |
| Gene Full Name | aminoacylase 1 |
| Background | This gene encodes a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and an acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. This gene is located on 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 this enzyme is the first member of a new family of zinc-binding enzymes. Mutations in this gene cause aminoacylase-1 deficiency, a metabolic disorder characterized by central nervous system defects and increased urinary excretion of N-acetylated amino acids. Alternative splicing of this gene results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ABHD14A (abhydrolase domain containing 14A) gene, as represented in GeneID:100526760. A related pseudogene has been identified on chromosome 18. [provided by RefSeq, Nov 2010] |
| Function | Involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate). [UniProt] |
| Calculated Mw | 46 kDa |

## Images



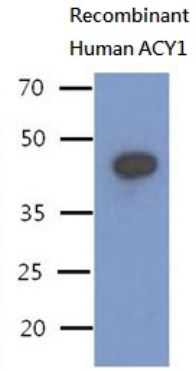

ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] FACS image

Flow Cytometry: Hep3B cells stained with ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] at 2-5 µg/10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).




ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] WB image

Western blot: 40 µg of Jurkat, HepG2, HeLa, and A549 stained with ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] at 1:500.




ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] WB image

Western blot: 50 ng of Recombinant Human ACY1 stained with ARG57036 anti-ACY1 / Aminoacylase 1 antibody [1E2] at 1:1000.