

Anti-ACY1 antibody

Cat. No.	ml121611
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-ACY1 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human ACY1
Reactivity	Human, Mouse
Content	0.1 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	ACY1
Full name	aminoacylase 1
Synonyms	ACY-1; ACY1D
Swissprot	Q03154

Target 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.

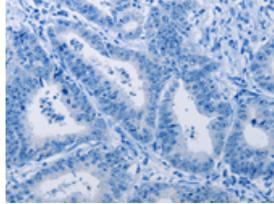
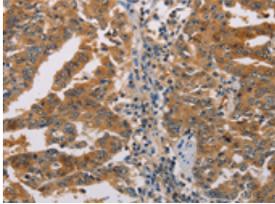
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm and Nucleus

Positive control: Human gastric cancer

Recommended dilution: 25-100

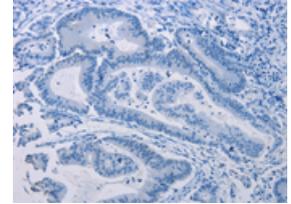
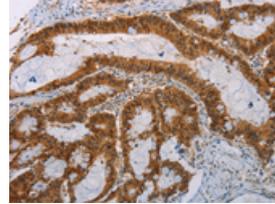


The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using ml121611(ACY1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Predicted cell location: Cytoplasm and Nucleus

Positive control: Human colon cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml121611(ACY1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 46 kDa

Positive control: Mouse kidney and human normal kidney tissue, K562 cells

Recommended dilution: 200-1000

Gel: 10%SDS-PAGE

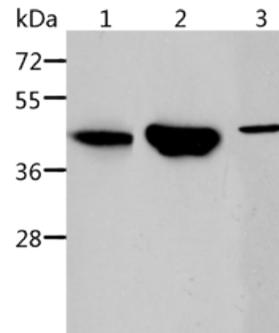
Lysate: 40 μ g

Lane 1-3: Mouse kidney tissue, human normal kidney tissue, K562 cells

Primary antibody: ml121611(ACY1 Antibody) at dilution 1/250

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 minutes



ELISA

Recommended dilution: 2000-5000

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