







## **ACY1 Polyclonal Antibody**

Catalog No	YP-Ab-07077
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	ACY1
Protein Name	Aminoacylase-1 (ACY-1) (EC 3.5.1.14) (N-acyl-L-amino-acid amidohydrolase)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	ACY1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Purity Storage Stability	≥90% -20°C/1 year
Storage Stability	
Storage Stability Synonyms	-20°C/1 year
Storage Stability Synonyms Observed Band	-20°C/1 year 44kD
Storage Stability Synonyms Observed Band Cell Pathway	-20°C/1 year  44kD  Cytoplasm.  Expression is highest in kidney, strong in brain and weaker in placenta and
Storage Stability Synonyms Observed Band Cell Pathway Tissue Specificity	-20°C/1 year  44kD  Cytoplasm.  Expression is highest in kidney, strong in brain and weaker in placenta and spleen.  catalytic activity:An N-acyl-L-amino acid + H(2)O = a carboxylate + an L-amino acid., cofactor:Binds 2 zinc ions per subunit., disease:Defects in ACY1 are the cause of aminoacylase-1 deficiency (ACY1D) [MIM:609924]. ACY1D results in a metabolic disorder manifesting with encephalopathy, unspecific psychomotor delay, psychomotor delay with atrophy of the vermis and syringomyelia, marked muscular hypotonia or normal clinical features. Epileptic seizures are a frequent feature. All affected individuals exhibit markedly increased urinary excretion of several N-acetylated amino acids.,function:Involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate).,similarity:Belongs to the peptidase M20A family.,subunit:Homodimer. Interacts with SPHK1,,tissue specificity:Expression is highest in kidney, strong in brain and weaker in placenta



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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 als

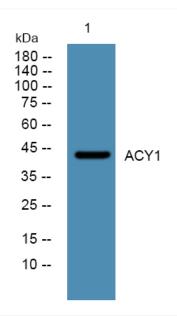
matters needing attention

Avoid repeated freezing and thawing!

**Usage suggestions** 

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night