

ECA39 Polyclonal Antibody

Catalog No: YT5443

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: ECA39

Fields: >>Cysteine and methionine metabolism;>>Valine, leucine and isoleucine

degradation;>>Valine, leucine and isoleucine biosynthesis;>>Pantothenate and

CoA biosynthesis;>>Metabolic pathways;>>2-Oxocarboxylic acid metabolism;>>Biosynthesis of amino acids;>>Biosynthesis of cofactors

Gene Name: BCAT1

Protein Name: Branched-chain-amino-acid aminotransferase, cytosolic

P54687

P24288

Human Gene Id: 586

Human Swiss Prot

No:

Mouse Gene Id: 12035

Mouse Swiss Prot

No:

Rat Gene ld: 29592

Rat Swiss Prot No: P54690

Immunogen: The antiserum was produced against synthesized peptide derived from the

Internal region of human BCAT1. AA range:231-280

Specificity: ECA39 Polyclonal Antibody detects endogenous levels of ECA39 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source : Polyclonal, Rabbit, IgG



Dilution: WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200 **Purification:** The antibody was affinity-purified from rabbit antiserum by affinitychromatography using epitope-specific immunogen. Concentration: 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability: Observed Band:** 43kD Valine; leucine and isoleucine degradation; Valine; leucine and isoleucine **Cell Pathway:** biosynthesis; Pantothenate and CoA biosynthesis; branched chain amino acid transaminase 1(BCAT1) Homo sapiens This gene **Background:** encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branchedchain alpha-keto acids to branched-chain L-amino acids essential for cell growth. Two different clinical disorders have been attributed to a defect of branched-chain amino acid transamination: hypervalinemia and hyperleucine-isoleucinemia. As

catalytic activity:2-oxoglutaric acid + L-isoleucine = (S)-3-methyl-2-oxopentanoic **Function:**

> acid + L-glutamic acid.,catalytic activity:2-oxoglutaric acid + L-valine = 3-methyl-2-oxobutanoic acid + L-glutamic acid.,catalytic activity:L-leucine + 2-oxoglutarate = 4-methyl-2-oxopentanoate + L-glutamate.,cofactor:Pyridoxal phosphate..function:Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine., similarity: Belongs to

there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders. Alternatively spliced transcript

the class-IV pyridoxal-phosphate-dependent aminotransferase

variants have been described. [provided by RefSeg, May 2010],

family.,subunit:Homodimer.,tissue specificity:During embryogenesis, expressed in the brain and kidney. Overexpressed in C-myc induced tumors such as Burkitt's

lymphoma.,

Subcellular Location:

Cytoplasm.

During embryogenesis, expressed in the brain and kidney. Overexpressed in **Expression:**

MYC-induced tumors such as Burkitt's lymphoma.

Sort: 5375

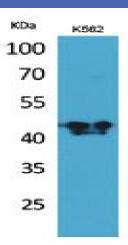
No4:

Host: Rabbit

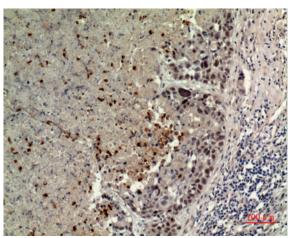
2/3

Modifications: Unmodified

Products Images



Western Blot analysis of K562 cells using ECA39 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded humanlung, antibody was diluted at 1:100