Best Tools for immunology Research

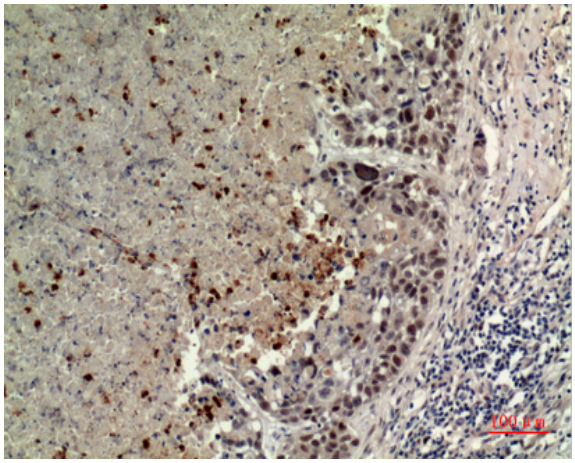
ECA39 Polyclonal Antibody

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
Human Gene Id :	586
Human Swiss Prot No :	P54687
Mouse Gene Id :	12035
Mouse Swiss Prot No :	P24288
Rat Gene Id :	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 affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	43kD
Cell Pathway :	Valine; leucine and isoleucine degradation;Valine; leucine and isoleucine biosynthesis;Pantothenate and CoA biosynthesis;
Background :	branched chain amino acid transaminase 1(BCAT1) Homo sapiens This gene encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branched-chain 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 there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2010],
Function :	catalytic activity:2-oxoglutaric acid + L-isoleucine = (S)-3-methyl-2-oxopentanoic 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 the class-IV pyridoxal-phosphate-dependent aminotransferase 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.
Expression :	During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma.

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 human-lung, antibody was diluted at 1:100