

Anti-BCAT1 Antibody

Catalog # ABO10856

Product Information

Application	WB, IHC-P
Primary Accession	P54687
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Branched-chain-amino-acid aminotransferase, cytosolic(BCAT1) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	586
Other Names	Branched-chain-amino-acid aminotransferase, cytosolic, BCAT(c), 2.6.1.42, Protein ECA39, BCAT1, BCT1, ECA39
Calculated MW	42966
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm.
Tissue Specificity	During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma.
Source	Eukaryota
Protein Name	Branched-chain-amino-acid aminotransferase, cytosolic(BCAT(c))
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human BCAT1(360-375aa KLASRILSKLTDIQYGR), different from the related mouse sequence by one amino acid, rat sequence by three amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	BCAT1
Synonyms	BCT1, ECA39 {ECO:0000303 PubMed:8692959}
Function	Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:P54690}.
Tissue Location	During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma

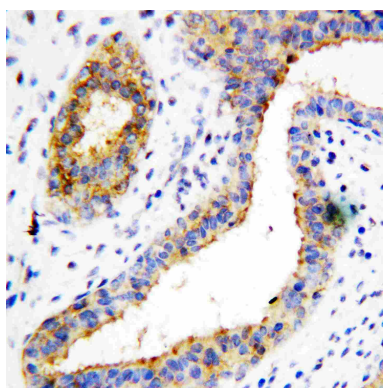
Background

BCAT1, Branched-chain Aminotransferase1, is also know as BCT1. The BCAT1 gene is highly expressed early in embryogenesis, and during organogenesis its expression is localized to the neural tube, the somites, and the mesonephric tubules. The gene is also expressed in several MYC-based tumors. The BCAT1 gene is mapped to chromosome 12. Lack of the enzyme BCT can cause auxotroph, a kind of auxotrophic mutant in Chinese-hamster ovary cells that lacks the ability to grow if alpha-ketoisovaleric acid, alpha-ketoisocaproic acid, and alpha-keto-beta-methylvaleric acid are substituted for valine, leucine, and isoleucine in the culture medium.

Images



Anti-BCAT1 antibody, ABO10856, Western blotting
lanes: Anti BCAT1 (ABO10856) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 45KD
Observed bind size: 45KD



Anti-BCAT1 antibody, ABO10856, IHC(P)
IHC(P): Human Mammary Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.