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BCAT1 Rabbit pAb

Catalog # AP99314

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P54687
Other Accession	P54687
Reactivity	Rat, Mouse
Predicted	Pig, Human, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42966
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BCAT1
Epitope Specificity	321-386/386
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family.
SUBUNIT	Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	586
Other Names	BCATC; BCT1; ECA39; MECA39; PNAS121; PP18; BCAT1_HUMAN; BCAT1; BCAT(c); 2.6.1.42; BCAT1_MOUSE; branched chain amino acid transaminase 1; branched chain aminotransferase 1, cytosolic
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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