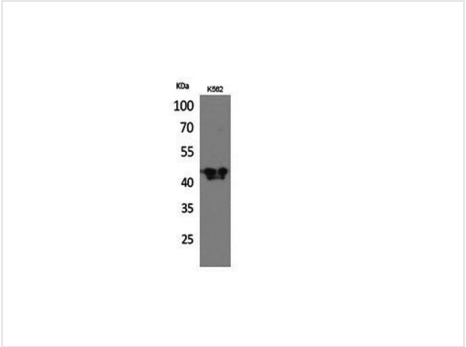
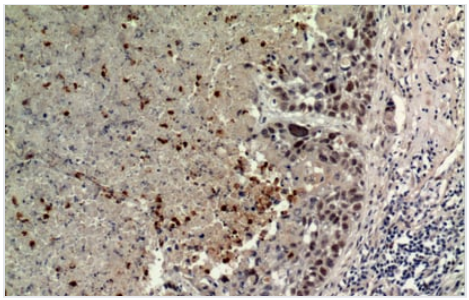
ECA39 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ECA39, Polyclonal Antibody
Full Product Name	ECA39 Polyclonal Antibody
Product Gene Name	anti-ECA39 antibody
Product Synonym Names	BCAT1; BCT1; ECA39; Branched-chain-amino-acid aminotransferase, cytosolic; BCAT(c); Protein ECA39
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purified
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 43 Observed MW: 43
OMIM	113520
Immunogen	Synthesized peptide derived from the Internal region of human ECA39.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.1475% sodium azide.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ECA39 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ECA39 antibody	WB: 1:500-1:2000, ELISA: 1:5000-1:20000
Related Product Information for anti-ECA39 antibody	MBS2539653 is an antibody targeting ECA39. Also known as ECA39 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ECA39 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ECA39 antibody
Western Blot analysis of K562 cells with ECA39 Polyclonal Antibody.



Immunohistochemistry (IHC) of anti-ECA39 antibody
Immunohistochemistry of paraffin-embedded Human lung tissue using ECA39 Polyclonal Antibody at dilution of 1:100.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ECA39. It may not necessarily be applicable to this product.

NCBI GI #	1036780
NCBI GeneID	586
NCBI Accession #	AAB08528.1
UniProt Secondary Accession #	Q68DQ7; Q96MY9; B3KY27; B7Z2M5; B7Z5L0; F5H5E4
UniProt Related Accession #	P54687
NCBI Official Full Name	ECA39
NCBI Official Synonym Full Names	branched chain amino acid transaminase 1
NCBI Official Symbol	BCAT1
NCBI Official Synonym Symbols	BCT1; PP18; BCATC; ECA39; MECA39; PNAS121
UniProt Protein Name	Branched-chain-amino-acid aminotransferase, cytosolic
UniProt Synonym Protein Names	Protein ECA39
UniProt Gene Name	BCAT1
UniProt Synonym Gene Names	BCT1; ECA39; BCAT(c)
UniProt Entry Name	BCAT1_HUMAN
NCBI Protein Information	branched-chain-amino-acid aminotransferase, cytosolic
NCBI Summary for ECA39	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]

UniProt Comments for ECA39	BCAT1: Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine. Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - valine, leucine and isoleucine biosynthesis; Amino Acid Metabolism - valine, leucine and isoleucine degradation; Cofactor and Vitamin Metabolism - pantothenate and CoA biosynthesis; EC 2.6.1.42; Transferase Chromosomal Location of Human Ortholog: 12p12.1 Cellular Component: cytosol; mitochondrion Molecular Function: branched-chain-amino-acid transaminase activity; pyridoxal phosphate binding Biological Process: aspartate biosynthetic process; branched chain family amino acid biosynthetic process; branched chain family amino acid catabolic process; cell proliferation; G1/S transition of mitotic cell cycle; leucine biosynthetic process; valine biosynthetic process
Research Articles on ECA39	**1.** Focal deletions of the BCAT1 were associated with B-cell precursor acute lymphoblastic leukemia.
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