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BCAT2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5405

Product Information

Application	WB
Primary Accession	O15382
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44288
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	587
Antigen Region	44-78
Other Names	Branched-chain-amino-acid aminotransferase, mitochondrial, BCAT(m), Placental protein 18, PP18, BCAT2, BCATM, BCT2, ECA40
Dilution	WB~~1:1000
Target/Specificity	This BCAT2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 44-78 amino acids from the N-terminal region of human BCAT2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BCAT2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BCAT2 {ECO:0000303|PubMed:31177572, ECO:0000312|HGNC:HGNC:977}
Function	Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine (PubMed:17050531, PubMed:25653144, PubMed:8702755). Branched chain amino acid catabolism

plays a role in adipocyte differentiation by providing lipogenic acetyl-CoA pools in differentiated adipocytes (By similarity). Mechanistically, acetyl-CoA derived from branched chain amino acid catabolism is used by EP300/p300 to acetylate and inhibit PRDM16, thereby preventing adipose tissue browning (By similarity). May also function as a transporter of branched chain alpha-keto acids (By similarity).

Cellular Location Mitochondrion {ECO:0000250|UniProtKB:O35854}.

Tissue Location Ubiquitous..

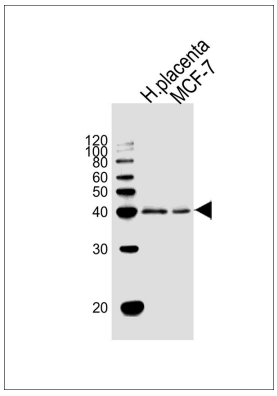
Background

Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine. May also function as a transporter of branched chain alpha-keto acids.

References

Bledsoe R.K.,et al.Biochim. Biophys. Acta 1339:9-13(1997).
Than N.G.,et al.Placenta 22:235-243(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Eden A.,et al.J. Biol. Chem. 271:20242-20245(1996).

Images



All lanes : Anti-BCAT2 Antibody (N-term) at 1:1000 dilution Lane 1: human placenta lysates Lane 2: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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