

BCAT1 (D4V2T) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #P54687	Entrez-Gene Id: 586
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	BCAT1 (D4V2T) Rabbit mAb recognizes endogenous levels of total BCAT1 protein. This antibody does not cross-react with BCAT2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human BCAT1 protein.	
Background	BCAT1 and BCAT2 are cytosolic and mitochondrial branched chain aminotransferases, respectively (1,2). Research studies have implicated BCAT1 in distant metastasis in patients with advanced colorectal cancer (3). Disruption of BCAT2 in mice leads to higher levels of plasma branched-chain amino acids, reduced adiposity and body weight, and increased energy expenditure, suggesting its role in regulating insulin sensitivity (4).	
Background References	<ol style="list-style-type: none"> 1. Bledsoe, R.K. et al. (1997) <i>Biochim Biophys Acta</i> 1339, 9-13. 2. Suryawan, A. et al. (1998) <i>Am J Clin Nutr</i> 68, 72-81. 3. Yoshikawa, R. et al. (2006) <i>World J Gastroenterol</i> 12, 5884-9. 4. She, P. et al. (2007) <i>Cell Metab</i> 6, 181-94. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	H: Human	
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