

Store at
-20C
#88785**BCAT1 (D6D4K) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	43	Rabbit IgG	#P54687	586

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 (D6D4K) 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 amino 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

1. Bledsoe, R.K. et al. (1997) *Biochim Biophys Acta* 1339, 9-13.
2. Suryawan, A. et al. (1998) *Am J Clin Nutr* 68, 72-81.
3. Yoshikawa, R. et al. (2006) *World J Gastroenterol* 12, 5884-9.
4. She, P. et al. (2007) *Cell Metab* 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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