

## Total BCKDK Cell-Based Colorimetric ELISA Kit

<b>Catalog No :</b>	KA3451C
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	ELISA
<b>Gene Name :</b>	BCKDK
<b>Human Gene Id :</b>	10295
<b>Human Swiss Prot No :</b>	O14874
<b>Mouse Swiss Prot No :</b>	O55028
<b>Rat Swiss Prot No :</b>	Q00972
<b>Storage Stability :</b>	2-8°C/6 months
<b>Detection Method :</b>	Colorimetric
<b>Background :</b>	<p>catalytic activity:ATP + [3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] = ADP + [3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] phosphate.,function:Catalyzes the phosphorylation and inactivation of the branched-chain alpha-ketoacid dehydrogenase complex, the key regulatory enzyme of the valine, leucine and isoleucine catabolic pathways. Key enzyme that regulate the activity state of the BCKD complex.,PTM:Autophosphorylated.,similarity:Belongs to the PDK/BCKDK protein kinase family.,similarity:Contains 1 histidine kinase domain.,subunit:Monomer.,tissue specificity:Ubiquitous.,</p>
<b>Function :</b>	<p>protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, cellular amino acid catabolic process, branched chain family amino acid metabolic process, branched chain family amino acid catabolic process, amine catabolic process, organic acid catabolic process, phosphorylation, peptidyl-histidine phosphorylation,peptidyl-histidine modification, carboxylic acid catabolic process,</p>
<b>Subcellular Location :</b>	Mitochondrion matrix. Mitochondrion .

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**Expression :** Ubiquitous.

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## Products Images