

For Research Use Only

# BCKDHB Monoclonal antibody, PBS Only (Detector)

Catalog Number: 68596-1-PBS



## Basic Information

<b>Catalog Number:</b> 68596-1-PBS	<b>GenBank Accession Number:</b> BC040139	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 594	<b>CloneNo.:</b> 1D12C7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P21953	
<b>Isotype:</b> IgG1	<b>Full Name:</b> branched chain keto acid dehydrogenase E1, beta polypeptide	
<b>Immunogen Catalog Number:</b> AG33802	<b>Calculated MW:</b> 392 aa, 43 kDa	
	<b>Observed MW:</b> 35-37 kDa	

## Applications

**Tested Applications:**  
Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Product Information

68596-1-PBS targets BCKDHB as part of a matched antibody pair:

MP50570-1: 68596-2-PBS capture and 68596-1-PBS detection (validated in Cytometric bead array)

MP50570-3: 68596-4-PBS capture and 68596-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Branched-chain alpha-keto acid dehydrogenase E1 component beta chain (BCKDHB; BCKDE1B; BCKDH E1-beta) is a subunit of the BCKDH complex, which is a mitochondrial enzyme in the degradation pathway for branched-chain amino acids (BCAA). Together with BCKDHA, BCKDHB forms the E1 subunit of this complex, whereas DBT and DLD are the E2 and E3 subunits, respectively. A deficiency of the BCKDH complex in humans causes maple syrup urine disease (MSUD), a severe neurometabolic disorder diagnosed by the detection of alloisoleucine in plasma (MIM 248600). (PMID: 30709776)

## Storage

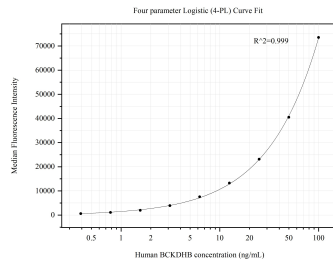
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

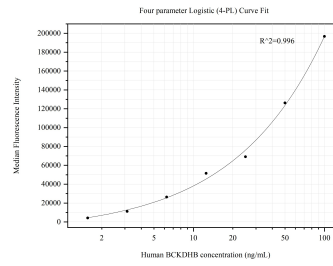
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Cytometric bead array standard curve of MP50570-1, BCKDHB Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68596-2-PBS. Detection antibody: 68596-1-PBS. Standard: Ag33802. Range: 0.391-100 ng/mL.



Cytometric bead array standard curve of MP50570-3, BCKDHB Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68596-4-PBS. Detection antibody: 68596-1-PBS. Standard: Ag33802. Range: 1.563-100 ng/mL.