For Research Use Only

BCKDHA Recombinant antibody, PBS Only (Capture)

Catalog Number:85799-3-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
85799-3-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG32613

GenBank Accession Number:
BC008933

GeneID (NCBI):
593

UNIPROT ID:
P12694

Full Name:
branched chain keto acid dehydrogenase E1, alpha polypeptide

Calculated MW:
50 kDa

Observed MW:
42-50 kDa

Purification Method:
Protein A purification

CloneNo.:
250051G11

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

85799-3-PBS targets BCKDHA as part of a matched antibody pair:

MP02125-1: 85799-3-PBS capture and 85799-2-PBS detection (validated in Cytometric bead array)

MP02125-2: 85799-3-PBS capture and 85799-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

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

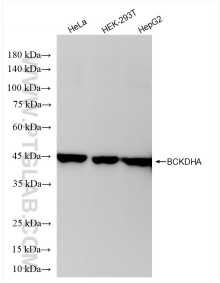
branched chain keto acid dehydrogenase E1, alpha polypeptide (BCKDHA), the gene encoding the regulated subunit of BCKDC was only one of two primary susceptibility genes identified that affected the risk of both type 2 diabetes mellitus (T2DM) and obesity (PMID: 25287287). BIX01294 transcriptionally downregulated the transcription of BCKDHA, which is essential for fueling the tricarboxylic acid (TCA) cycle. Studies have shown that KDM3A, a Jumonji histone demethylase, epigenetically regulates BCKDHA expression by binding to the BCKDHA gene promoter (PMID: 34876693). Moreover, at least four genes including BCKDHA, branched chain keto acid dehydrogenase E1, beta polypeptide (BCKDHB), dihydrolipoamide dehydrogenase (DLD), and dihydrolipoamide branched chain transacylase E2 (DBT) have been reported to be the causative gene for Maple syrup urine disease (MSUD) (PMID: 34187135).

Storage

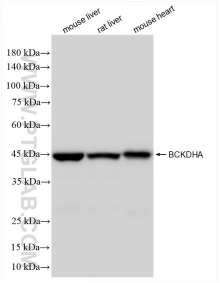
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85799-3-RR (BCKDHA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85799-3-PBS in a different storage buffer formulation.



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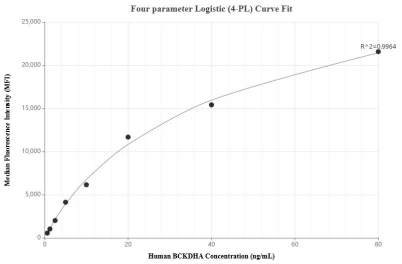
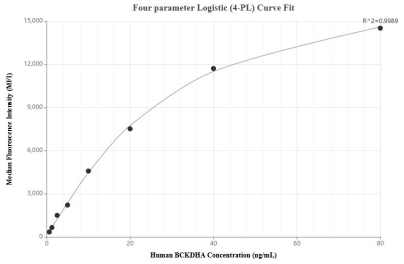


Cytometric bead array standard curve of MP02125-1, BCKDHA Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85799-3-PBS. Detection antibody: 85799-2-PBS. Standard: Ag32613. Range: 0.625-80 ng/mL.



Cytometric bead array standard curve of MP02125-2, BCKDHA Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85799-3-PBS. Detection antibody: 85799-1-PBS. Standard: Ag32613. Range: 0.625-80 ng/mL.