

BCAT2 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 68586-1-PBS

Basic Information

Catalog Number: 68586-1-PBS	GenBank Accession Number: BC001900	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 587	CloneNo.: 1A5A5
Source: Mouse	UNIPROT ID: O15382	
Isotype: IgG2a	Full Name: branched chain aminotransferase 2, mitochondrial	
Immunogen Catalog Number: AG9595	Calculated MW: 44 kDa	
	Observed MW: 38 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

68586-1-PBS targets BCAT2 as part of a matched antibody pair:

MP50268-2: 68586-1-PBS capture and 68586-4-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 amino acid transaminase 2 (BCAT2) is an important enzyme in branched-chain amino acids (BCAAs) catabolism that reversibly catalyzes the initial step of BCAA degradation to branched-chain acyl-CoA. In humans, BCAT2 encodes a mitochondrial protein that is ubiquitously expressed in all organs (except hepatocytes) (PMID:32467562). Moreover, other reports showed that overexpressed BCAT2 in pancreatic ductal adenocarcinoma (PDAC) cells enhanced cell proliferation and survival in vitro and in vivo (PMID:35663242).

Storage

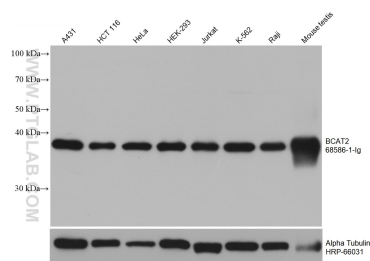
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

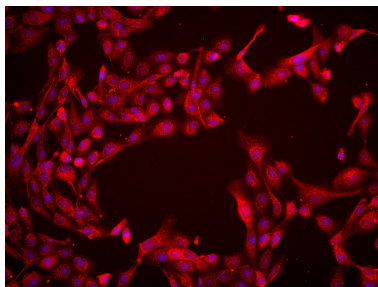
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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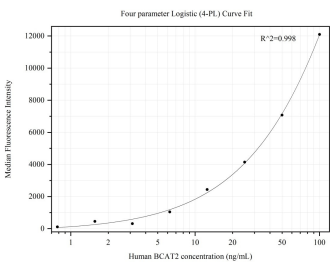
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68586-1-Ig (BCAT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 68586-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using BCAT2 antibody (68586-1-Ig, Clone: 1A5A5) at dilution of 1:1130 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 68586-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50268-2, BCAT2 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68586-1-PBS. Detection antibody: 68586-4-PBS. Standard: Ag9595. Range: 0.781-100 ng/mL.