

## **Human/Mouse BCAP Antibody**

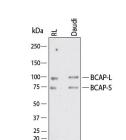
Monoclonal Mouse IgG<sub>1</sub> Clone # 501813 Catalog Number: MAB4857

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects endogenous human and mouse BCAP in Western blots.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 501813	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human BCAP Met462-Leu650 Accession # Q6ZUJ8	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended	Sample		
	Concentration			
Western Blot	2 μg/mL	See Below		

## DATA

Western Blot



Detection of Human BCAP by Western Blot. Western Blot shows lysates of RL human non-Hodgkin's lymphoma B cell line and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 2 μg/ml of Mouse Anti-Human/Mouse BCAP Monoclonal Antibody (Catalog # MAB4857) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for BCAP at approximately 80 kDa and 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.		
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

## BACKGROUND

BCAP (B cell adaptor for phosphoinositide 3-kinase (PI3K)), also known as PI3KAP1, participates in linking the B cell antigen receptor (BCR) with the PI3K pathway. Tyrosine phosphorylation of BCAP by BCR-associated protein tyrosine kinases, such as Syk and Btk, generates binding sites for the p85 subunit of PI3K, resulting in activation of the PI3K pathway. Human and mouse BCAP contain 3 YXXM SH2 binding motifs for interaction with PI3K. BCAP null mice have deficient immune function, with B cells that exhibit enhanced apoptosis.

Rev. 4/26/2024 Page 1 of 1

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