Technical Data Sheet

Purified Mouse anti-BLNK (pY84)

Product Information

Material Number:	558366
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	J117-1278
Immunogen:	Phosphorylated Human BLNK Peptide
Isotype:	Mouse (BALB/c) IgG2b, κ
Reactivity:	QC Testing: Human
	Reported Reactivity: Mouse
Target MW:	68 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

B cell activation is initiated by crosslinking the B cell receptor, which leads to activation of non-receptor protein tyrosine kinases (PTK), including Btk, Syk, and three Src kinases, Fyn, Lyn, and Blk. Activated PTKs then phosphorylate multiple cellular proteins involved in B lymphocyte signaling. Syk is responsible for the tyrosine phosphorylation of **B** cell *link*er protein (BLNK), a member of the SLP-76 family of adapter proteins. Phosphorylation of human BLNK at tyrosines 84, 178, and 189 (Y84, Y178, and Y189) creates docking sites for PLCy2, leading to the activation of downstream signaling pathways.

The J117-1278 monoclonal antibody recognizes the phosphorylated Y84 of BLNK.



Western blot analysis of BLNK (pY84) in human Burkitt's Ivmphoma. Lysates from control (lanes 1-3) and hydrogen peroxide-activated (lanes 4-6) Ramos cells were probed with purified mouse anti-BLNK (pY84) monoclonal antibody) at concentrations of 0.125 (lanes 1 and 4), 0.0625 (lanes 2 and 5), and 0.032 µg/ml (lanes 3 and 6). BLNK (pY84) is identified as a band of about 68 kDa in the treated cells

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes Application Western blot Routinely Tested Suggested Companion Products Catalog Number Size Clone Name 554002 HRP Goat Anti-Mouse Ig 1.0 ml (none) **BD Biosciences** bdbiosciences.com United States Canada Europe Japan Asia Pacific Latin America/Caribbean 877.232.8995 800.979.9408 32.53.720.550 0120.8555.90 65.6861.0633 55.11.5185.9995 For country contact information, visit bdbiosciences.com/contact Conditions: The information disclosed herein is not to be constructed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be help responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is stictly prohibited. For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale. Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

- 2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 3. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
- 4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Chiu CW, Dalton M, Ishiai M, Kurosaki T, Chan AC. BLNK: molecular scaffolding through 'cis'-mediated organization of signaling proteins. EMBO J. 2002; 21:6461-6472. (Biology)

Espeli M, Mancini S, Breton C, Poirier F, Schiff C. Impaired B-cell development at the pre-Bll-cell stage in galectin-1-deficient mice due to inefficient pre-Bll/stromal cell interactions. *Blood.* 2009; 113(23):5878-5886. (Clone-specific: Flow cytometry)

Janssen E, Zhang W. Adaptor proteins in lymphocyte activation. *Curr Opin Immunol.* 2003; 15:269-276. (Biology)

Pighi C, Gu T, Dalai I, et al. Phospho-proteomic analysis of mantle cell lymphoma cells suggests a pro-survival role of B-cell receptor signaling. *Cell Oncol.* 2011; 34(2):141-153. (Clone-specific: Flow cytometry, Western blot)

Wu JN, Koretzky GA. The SLP-76 family of adapter proteins. Semin Immunol. 2004; 16:379-393. (Biology)

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