

Technical Data Sheet

Purified Mouse anti-BLNK (pY84)

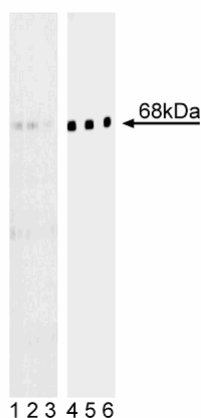
Product Information

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: 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 *linker* 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 PLC γ 2, 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 lymphoma. 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

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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3. 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.

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)
- Janssen E, Zhang W. Adaptor proteins in lymphocyte activation. *Curr Opin Immunol.* 2003; 15:269-276.(Biology)
- Wu JN, Koretzky GA. The SLP-76 family of adapter proteins. *Semin Immunol.* 2004; 16:379-393.(Biology)