

Human Lyp Antibody

Monoclonal Mouse IgG_{2B} Clone # 340113 Catalog Number: MAB3428

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Lyp in Western blots.	
Source	Monoclonal Mouse IgG _{2B} Clone # 340113	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human Lyp Ser306-Ser684 Accession # Q9Y2R2	
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.	

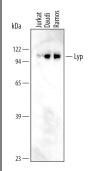
APPLICATIONS

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 Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

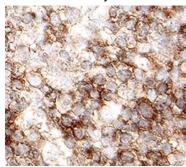
DATA

Western Blot



Detection of Human Lyp by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Daudi human Burkitt's lymphoma cell line, and Ramos human Burkitt's lymphoma cell line, PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Lyp Monoclonal Antibody (Catalog # MAB3428) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Lyp at approximately 108 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Lyp in Human Lymph Node.
Lyp was detected in immersion fixed paraffin-embedded sections of human lymph node using 25 µg/mL
Mouse Anti-Human Lyp Monoclonal
Antibody (Catalog # MAB3428)
overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell &
Tissue Staining Kit (brown; Catalog #
CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Lymphoid phosphatase (Lyp), also called LyPTP, Protein Tyrosine Phosphatase, Nonreceptor-type 22 (PTPN22), and PEST-domain Phosphatase (PEP), dephosphorylates tyrosine residues in proteins. Found primarily in bone marrow and lymphoid cell lines, an R620W gain-of-function mutation in Lyp has been associated with susceptibility to autoimmune diseases such as type I diabetes, rheumatoid arthritis, and lupus erythematosus. Mature PEP knockout mice have an excess of CD8 positive T cells and an exaggerated antigen-induced proliferative response.

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