

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	<i>E. coli</i> -derived recombinant human Lyp Ser306-Ser684 Accession # Q9Y2R2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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