

#### **International Office**

#### **Everest Biotech Ltd**

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 United States

**Customer Service:** 

customerservice@vectorlabs.com

Technical Service:

technical@vectorlabs.com

Tel: +1 (800) 227-6666

www.everestbiotech.com

Research Use Only. Not for diagnostic or therapeutic use.

# EB06560 - Goat Anti-LYP / PTPN22 Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

**Principal Names:** PTPN22, LYP, Lyp1, Lyp2, protein tyrosine phosphatase, non-receptor type 22 (lymphoid), protein tyrosine phosphatase homolog, lymphoid-specific protein

tyrosine phosphatase

Official Symbol: PTPN22

Accession Number(s): NP\_057051; NP\_036543.4; NP\_001180360.1; NP\_001295226.1

Human GenelD(s): 26191

Important Comments: This antibody is specific for human LYP1 and will not cross-react

with LYP2.

## Immunogen

Peptide with sequence CPPNKPAESVQSNNS, from the internal region of the protein sequence according to NP\_057051; NP\_036543.4; NP\_001180360.1; NP\_001295226.1.

Please note the peptide is available for sale.

# **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Aliquot and store at -20°C. Minimize freezing and thawing.

### **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:32000.

**Western blot:** Preliminary experiments showed a 100kDa band in some Daudi cell lysates at 0.5-1ug/ml. This molecular weight is routinely observed by other sources. An additional band at 75kDa was also observed and both bands were successfully blocked by incubation with the immunizing peptide.

IHC: Paraffin embedded Human Small Intestine, Thyroid and Adrenal Gland.

Recommended concentration: 3.75µg/ml.

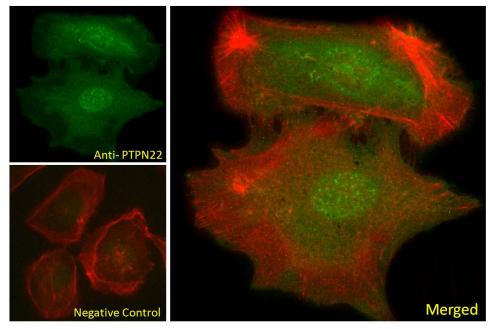
**Immunofluorescence:** Strong expression of the protein seen in the nuclei of U2OS cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

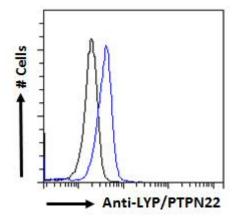
## **Species Reactivity**

Tested: Human

Expected from sequence similarity: Human, Chimpanzee

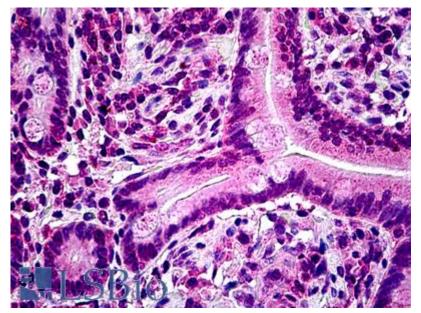


EB06560 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

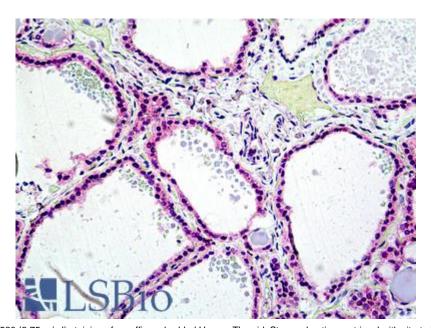


EB06560 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

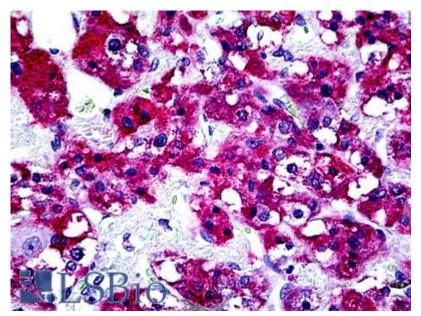
Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB06560 (3.75µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06560 (3.75 $\mu$ g/ml) staining of paraffin embedded Human Thyroid. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06560 (3.75µg/ml) staining of paraffin embedded Human Adrenal Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.