



## UK Office

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**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 GeneID(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 0.5-1µg/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.

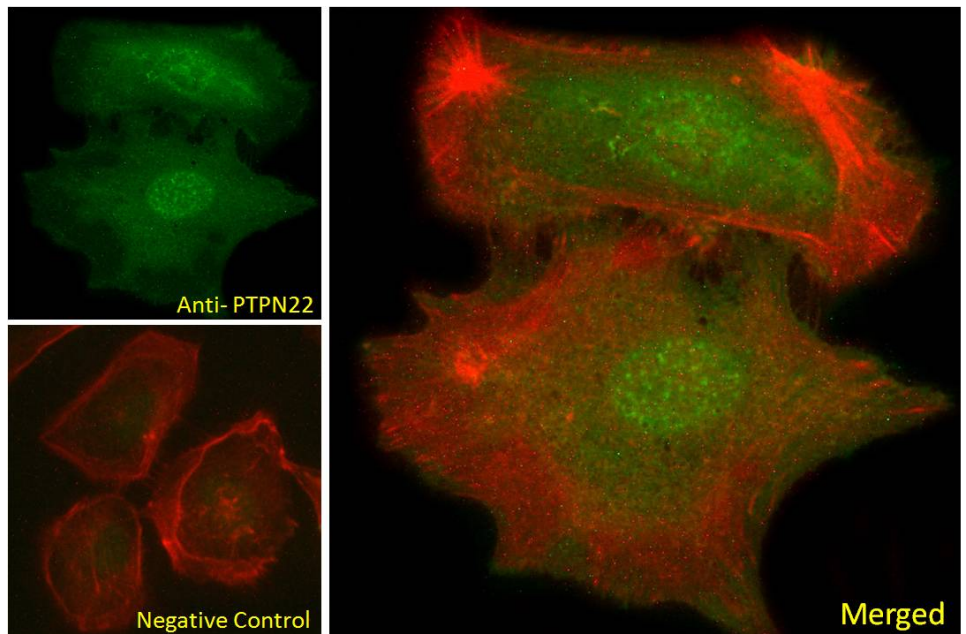
Recommended concentration: 10µg/ml.

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

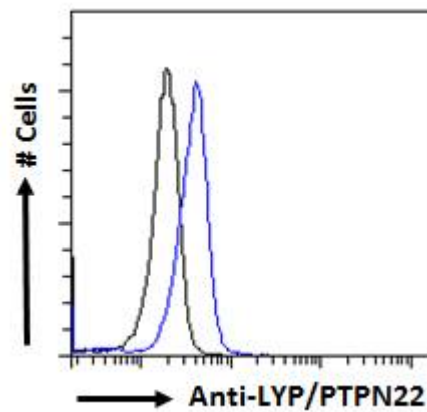
### Species Reactivity

**Tested:** Human

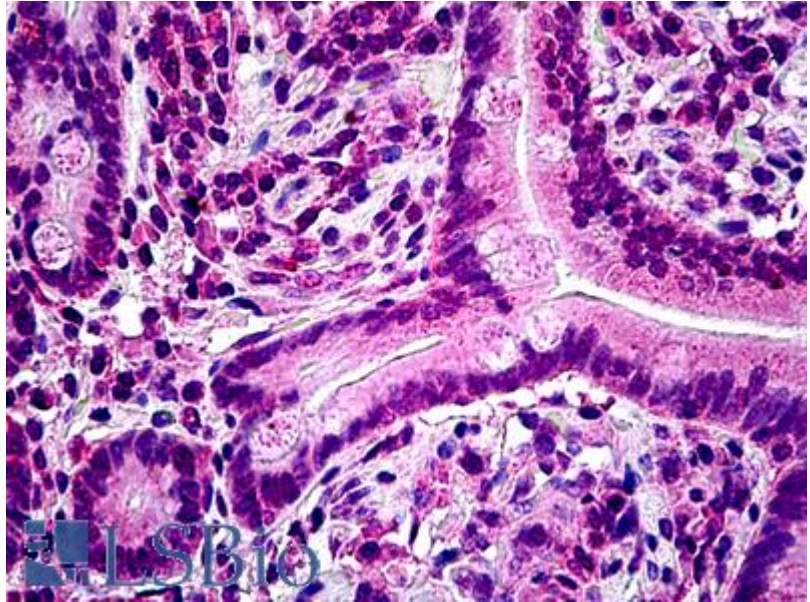
**Expected from sequence similarity:** Human, Chimpanzee



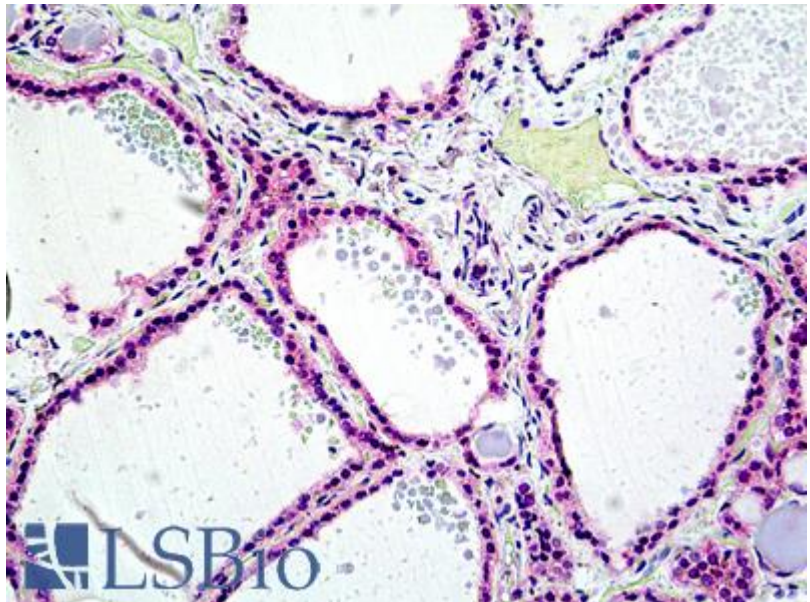
EB06560 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized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



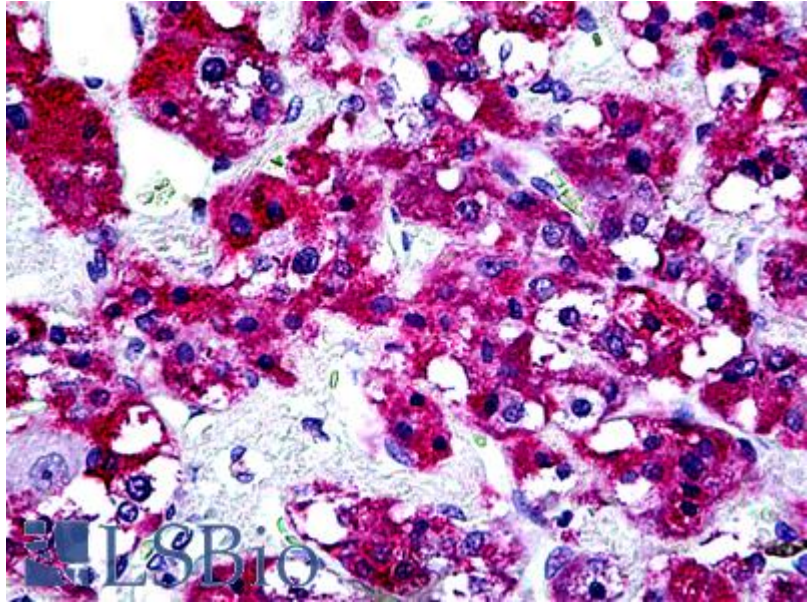
EB06560 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



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



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



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