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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 0.5-1ug/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.

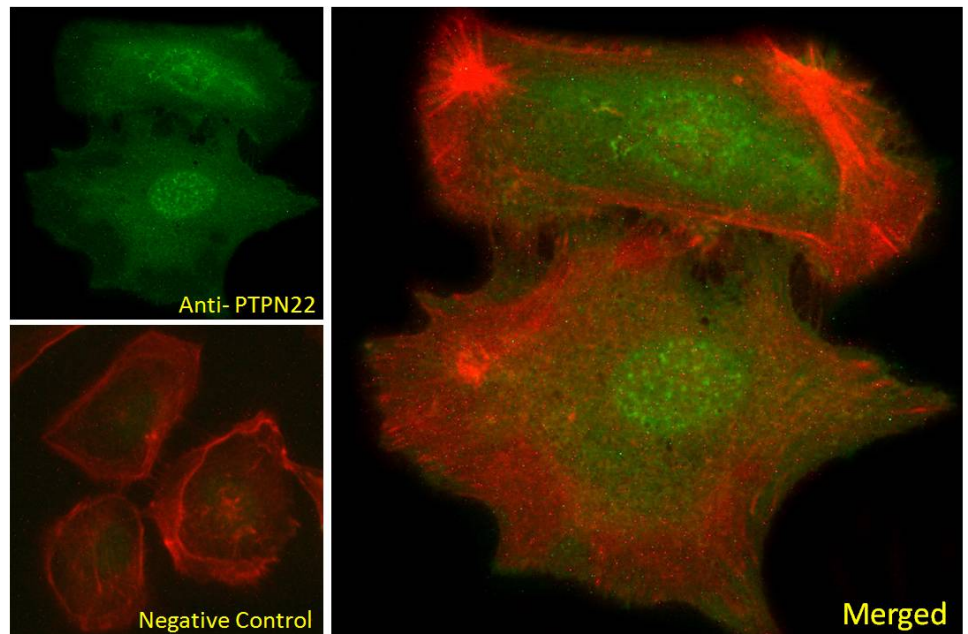
Recommended concentration: 10µg/ml.

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

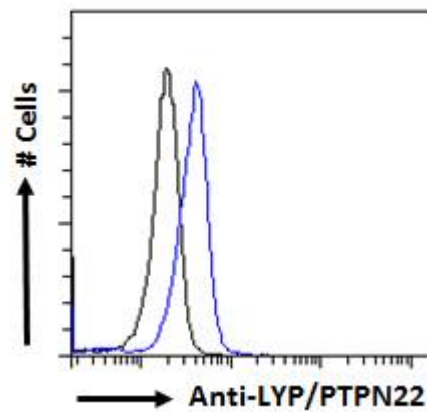
Species Reactivity

Tested: Human

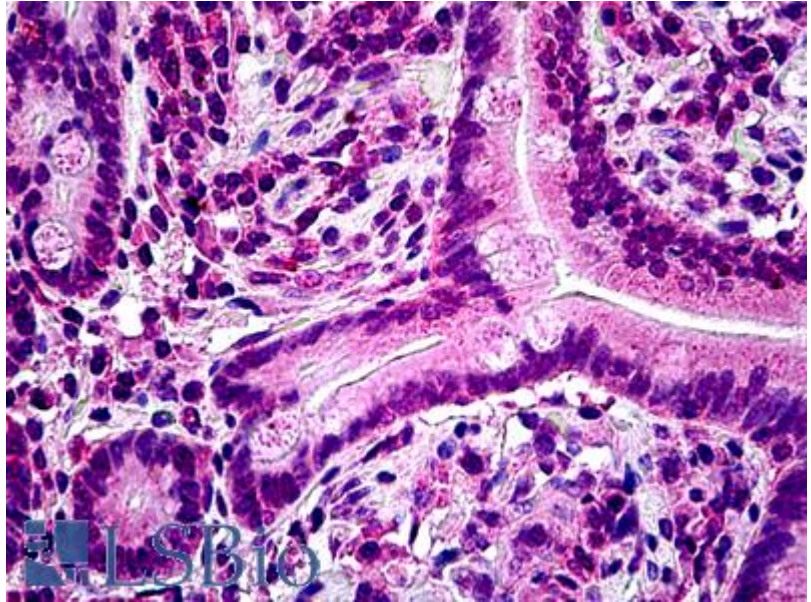
Expected from sequence similarity: Human, Chimpanzee



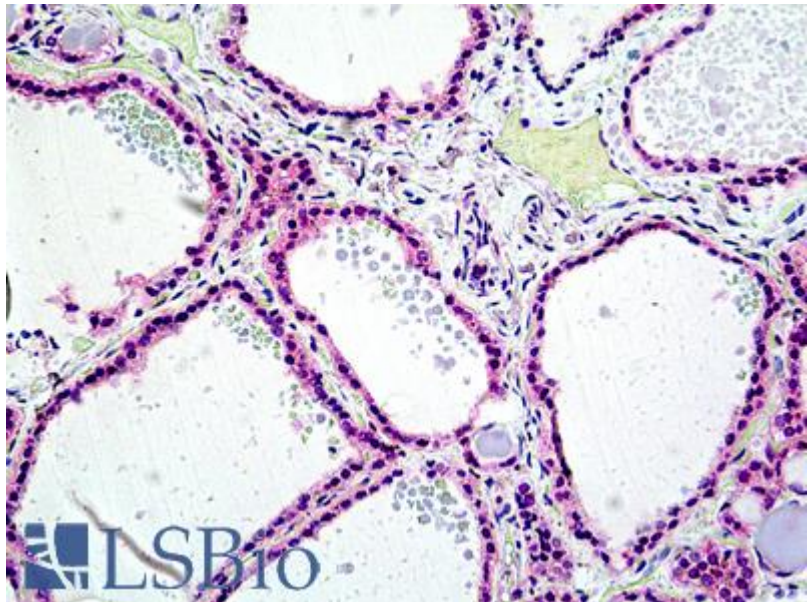
EB06560 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized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



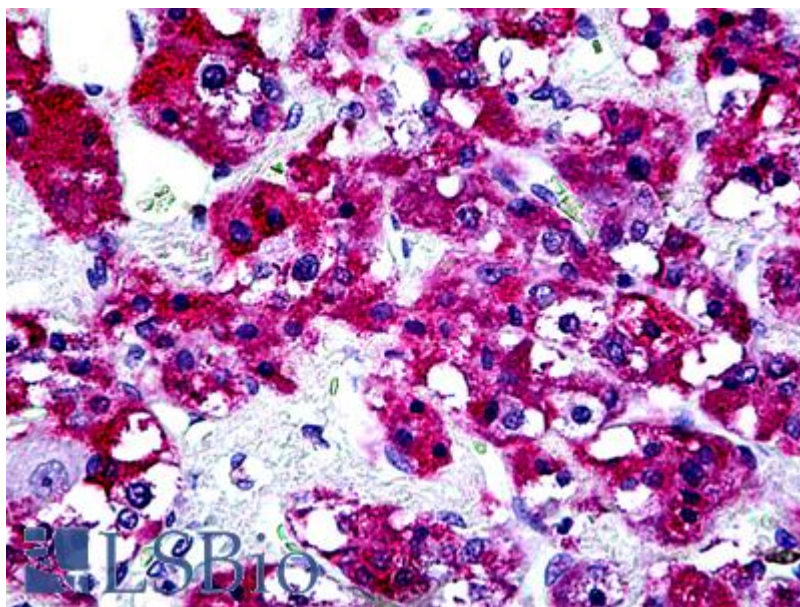
EB06560 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



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



EB06560 (3.75µg/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.