UK Office

Everest Biotech Ltd
Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:
info@everestbiotech.com
Sales:
sales@everestbiotech.com
Tech support:
support@everestbiotech.com

Tel: +44 (0)1869 238326
Fax: +44 (0)1869 238327

US Office

Everest Biotech c/o Abcore
405 Maple Street, Suite A106
Ramona,
CA 92065
USA

Inquiries:
info@everestbiotech.com
Sales:
usasales@everestbiotech.com
Tech support:
support@everestbiotech.com

Tel: 888-320-4628 (toll-free)
Fax: 888-841-9041

www.everestbiotech.com

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

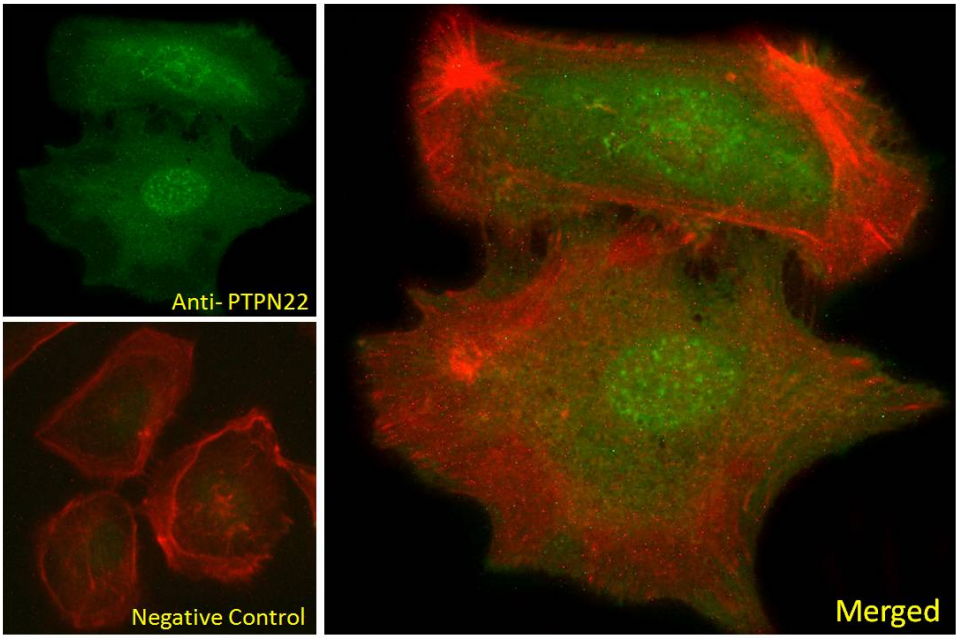
Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Preliminary experiments showed a 100kDa band in some Daudi cell lysates at 0.5-1ug/ml. This molecular weight is routinely observed by other sources. An additional band at 75kDa was also observed and both bands were successfully blocked 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.

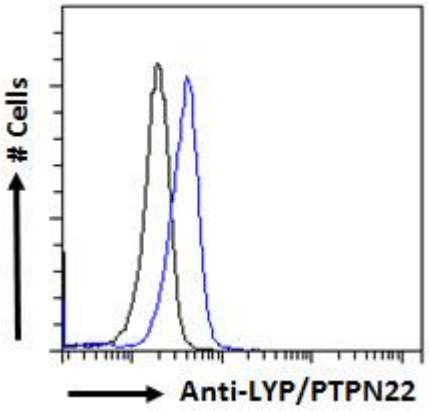
Flow Cytometry: Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

Species Reactivity

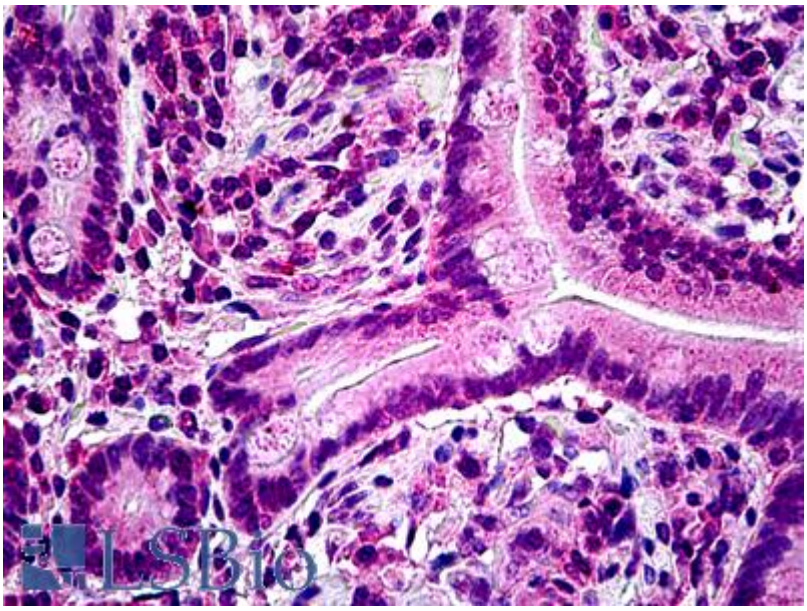
Tested: Human
Expected from sequence similarity: Human, Chimpanzee



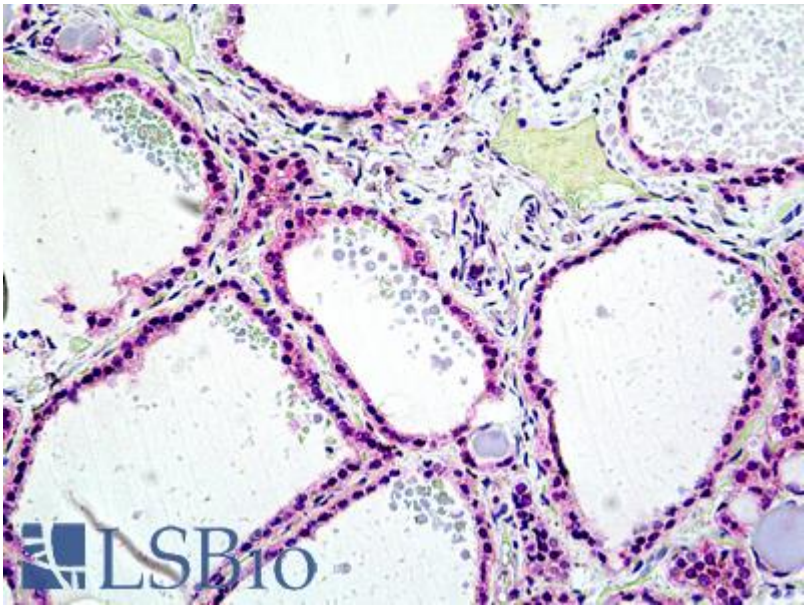
EB06560 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized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



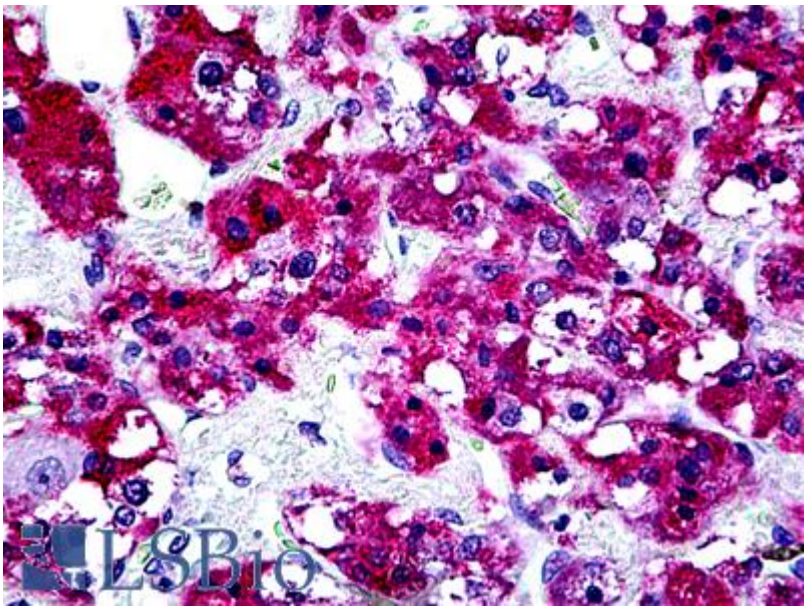
EB06560 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



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.