

#### **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.

# EB08802 - Goat Anti-ITK Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

Principal Names: ITK, IL2-inducible T-cell kinase, EMT, LYK, MGC126257, MGC126258,

PSCTK2, homolog of mouse T-cell itk/tsk, tyrosine-protein kinase ITK/TSK,

tyrosine-protein kinase LYK

Official Symbol: ITK

Accession Number(s): NP\_005537.3

Human GeneID(s): 3702

### **Immunogen**

Peptide with sequence C-KERPEDRPAFSR, from the internal (near C terminus) of the protein sequence according to NP\_005537.3.

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 1:64000.

**Western blot:** Approx 70kDa band observed in Rat Colon, Lung and Spleen lysates (calculated MW of 72.4kDa according to Rat NP\_001102295.2). Recommended concentration: 0.3-1μg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Spleen. Recommended concentration: 3.75ug/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm and

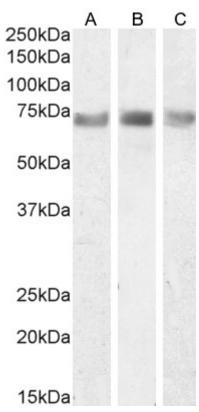
membranes of Jurkat cells. Recommended concentration: 10µg/ml.

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

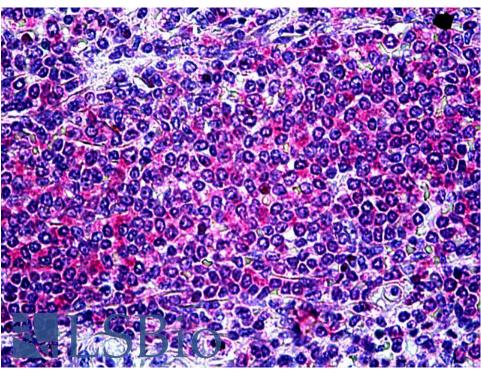
### **Species Reactivity**

Tested: Human, Rat

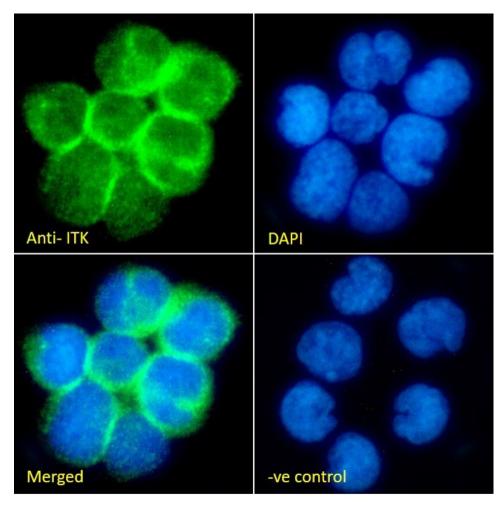
Expected from sequence similarity: Human, Rat, Cow



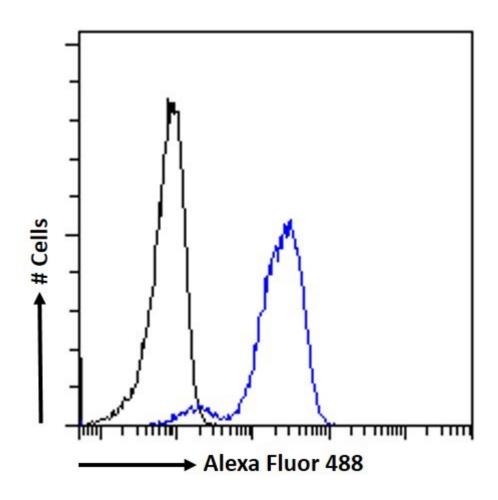
EB08802 (0.3μg/ml) staining of Rat Colon (A), (0.5ug/ml) Lung (B) and (1ug/ml) Spleen (C) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB08802 (3.75μg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08802 Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells immobilized on ShifixTM coverslip, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08802 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.