

#### **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.

# EB12597 - Goat Anti-CD4 Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

Principal Names: CD4, CD4 molecule, CD4mut, CD4 antigen (p55), CD4 receptor, T-cell

surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

Official Symbol: CD4

Accession Number(s): NP\_000607.1; NP\_001181943.1

Human GeneID(s): 920

Important Comments: This antibody is expected to recognize isoform 1 (NP\_000607.1)

and isoform 2 (NP\_001181943.1).

### **Immunogen**

Peptide with sequence C-KNKEVSVKRVTQDPK, from the internal region of the protein sequence according to NP\_000607.1; NP\_001181943.1.

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 1:128000.

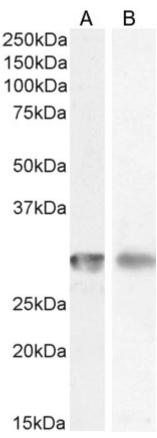
**Western blot:** Approx 30kDa band observed in Human Spleen and Bone Marrow lysates (calculated MW of 31.3kDa according to NP\_001181943.1). Recommended concentration: 0.3-1μg/ml. Primary incubation 1 hour at room temperature. **IHC:** Paraffin embedded Human Tonsil. Recommended concentration: 4μg/ml.

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

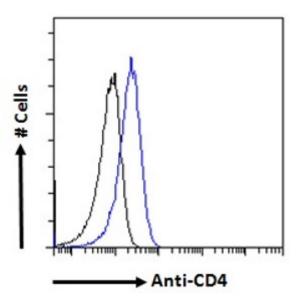
### **Species Reactivity**

Tested: Human

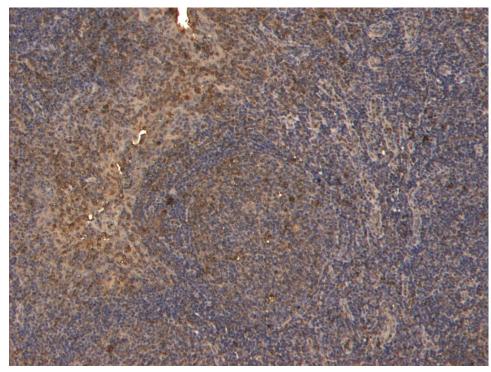
Expected from sequence similarity: Human



EB12597 (1μg/ml) staining of Human Spleen (A) and (0.5ug/ml) Bone Marrow (B) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB12597 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.



EB12597 (4 $\mu$ g/ml) staining of paraffin embedded Human Tonsil. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB12597 Negative Control showing staining of paraffin embedded Human Tonsil, with no primary antibody.