



## UK Office

### Everest Biotech Ltd

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

Enquiries:

[info@everestbiotech.com](mailto:info@everestbiotech.com)

Sales:

[sales@everestbiotech.com](mailto:sales@everestbiotech.com)

Tech support:

[support@everestbiotech.com](mailto:support@everestbiotech.com)

Tel: +44 (0)1869 238326

[www.everestbiotech.com](http://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-KNKEVSVKRVTDQPK, 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.

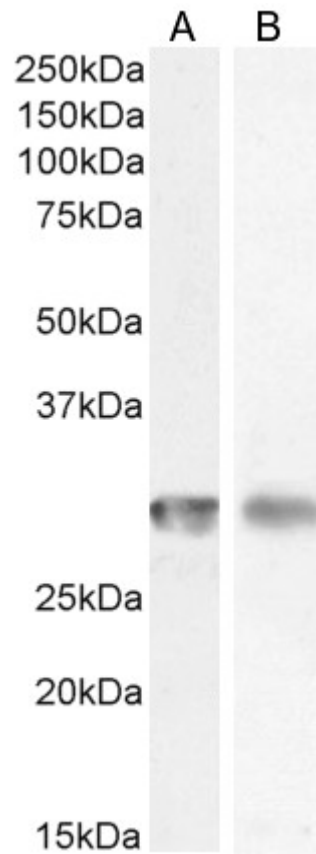
**IHC:** Paraffin embedded Human Tonsil. Recommended concentration: 4µg/ml.

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

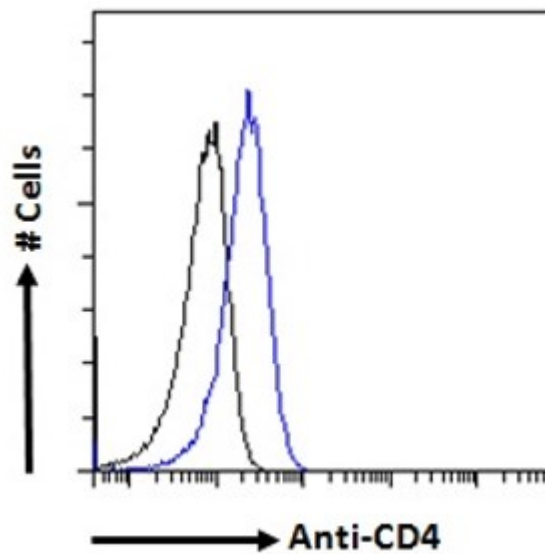
### Species Reactivity

**Tested:** Human

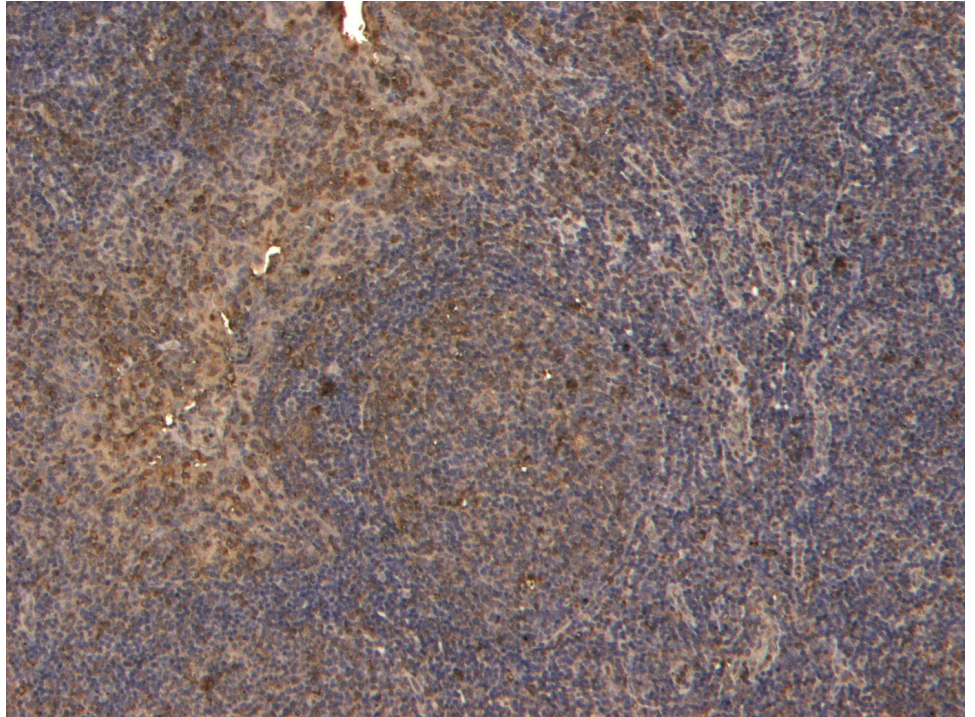
**Expected from sequence similarity:** Human



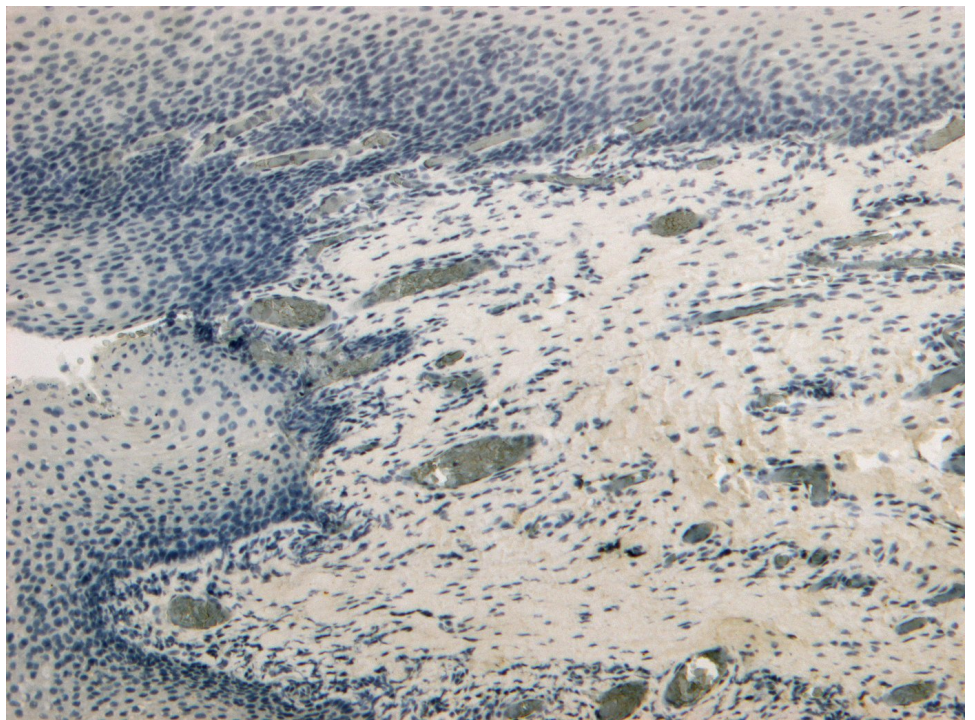
EB12597 (1µg/ml) staining of Human Spleen (A) and (0.5µg/ml) Bone Marrow (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB12597 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10µg/ml) followed by Alexa Fluor 488 secondary antibody (1µg/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB12597 (4µg/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.