

#### 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.

# EB05294 - Goat Anti-FOXP3 / SCURFIN Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

**Principal Names:** FOXP3, SCURFIN, forkhead box P3, JM2, AIID, IPEX, PIDX, XPID, DIETER, JM2 protein, immunodeficiency, polyendocrinopathy, enteropathy, X-linked, immune dysregulation, polyendocrinopathy, enteropathy, X-linked, MGC141961,

MGC141963, FOXP3delta7, scurfin

Official Symbol: FOXP3

Accession Number(s): NP\_054728.2; NP\_001107849.1

Human GeneID(s): 50943

Important Comments: This antibody is expected to recognize both reported isoforms

(NP\_054728.2 and NP\_001107849.1)

## **Immunogen**

Peptide with sequence SQRPSRCSNPTPGP, from the C Terminus of the protein sequence according to NP\_054728.2; NP\_001107849.1.

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 1:8000.

**Western blot:** Approx 48-50kDa band observed in Human Muscle lysates and in lysates of cell line MOLT4 (calculated MW of 47.2kDa according to NP\_054728.2).

Recommended concentration: 1-3µg/ml. Primary incubation 1 hour at room temperature.

Negative Control: Human Pancreas lysate.

IHC: Paraffin embedded Human Spleen. Recommended concentration: 6-8µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the nucleoplasm of U2OS cells. Recommended concentration: 10µg/ml.

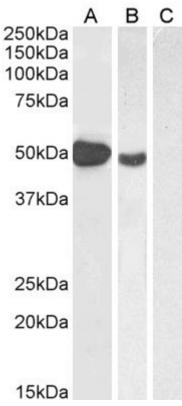
**Flow Cytometry:** Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

**Immunocytochemistry:** CD25-sorted (Treg) Human blood cells with nuclear speckled staining. Recommended concentration 2-4ug/ml for overnight staining.

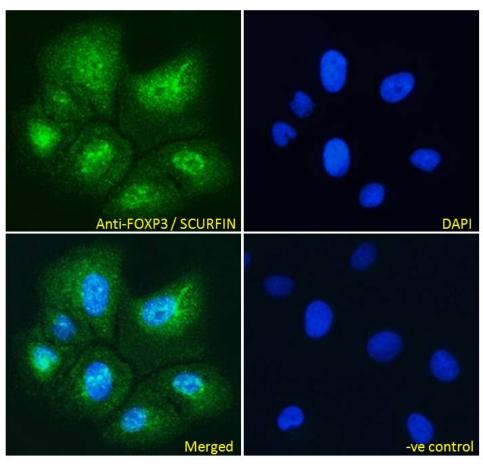
## **Species Reactivity**

Tested: Human

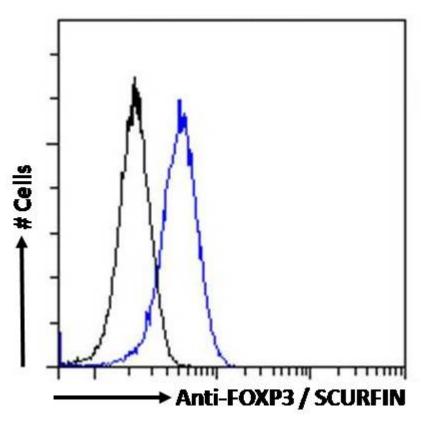
Expected from sequence similarity: Human



EB05294 (1μg/ml) staining of Human Muscle (A), (2ug/ml) MOLT4 (B) and (1μg/ml) negative control Pancreas (C) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.

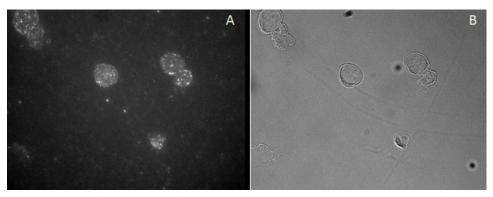


EB05294 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing strong

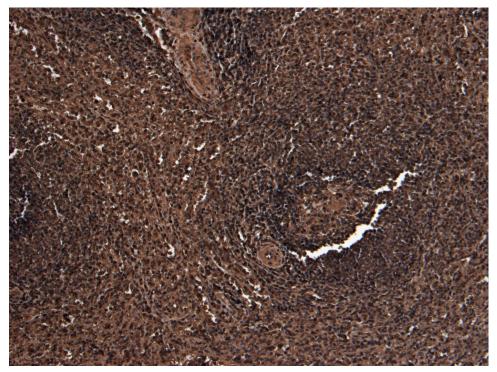


EB05294 Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml). IgG control:

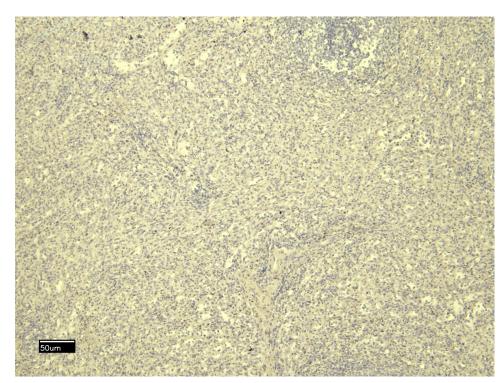
Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB05294 staining of CD25-sorted (Treg) Human blood cells gathered by cytospin and detected by FITC (A) and in phase contrast (B).



EB05294 (8 $\mu$ g/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB05294 Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.