

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.

EB07379 - Goat Anti-STAT3 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: STAT3, signal transducer and activator of transcription 3 (acute-phase response factor), APRF, FLJ20882, MGC16063, DNA-binding protein APRF, acute-phase

response factor, signal transducer and activator of transcription 3

Official Symbol: STAT3

Accession Number(s): NP_644805.1; NP_003141.2; NP_998827.1

Human GeneID(s): 6774

Non-Human GenelD(s): 20848 (mouse), 25125 (rat)

Important Comments: This antibody is expected to recognise all three reported isoforms

(NP_644805.1, NP_003141.2 and NP_998827.1).

Immunogen

Peptide with sequence CRPESQEHPEADP, from the internal region of the protein sequence according to NP_644805.1; NP_003141.2; NP_998827.1.

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 1:16000.

Western blot: Approx 85kDa band observed in lysates of cell line LNCaP, and approx. 90kDa in Mouse Heart lysates (calculated MW of 83.1kDa according to Human NP_998827.1 and 88.1kDa according to Mouse: NP_998824.1). Recommended concentration: 0.5-3ug/ml. Primary incubation 1 hour. at room temperature. **IHC:** Paraffin embedded Human Kidney. Recommended concentration: 5µg/ml.

Flow Cytometry: Flow cytometric analysis of K562 cells. Recommended concentration: 10ug/ml

Species Reactivity

Tested: Human, Mouse

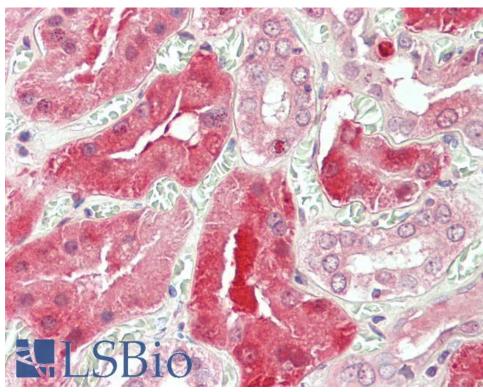
Expected from sequence similarity: Human, Mouse, Rat, Dog

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa

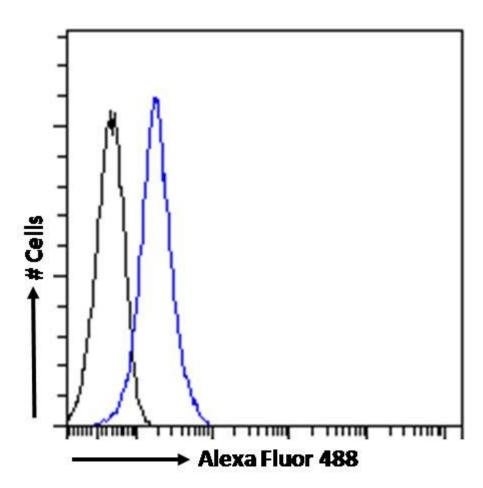
EB07379 (3μg/ml) staining of LNCaP cell lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa

EB07379 (0.5μg/ml) staining of Mouse Heart lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB07379 (5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07379 Flow cytometric analysis of paraformaldehyde fixed K562 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.