

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07379-T - Goat Anti-STAT3 Antibody - Trial

Size: 20µg specific antibody in 40µl



### 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 GeneID(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

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

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.