



## International Office

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

## EB07196-T - Goat Anti-LEF1 Antibody - Trial

Size: 20µg specific antibody in 40µl



### Target Protein

**Principal Names:** LEF1, lymphoid enhancer-binding factor 1, HGNC:6551, DKFZp586H0919, TCF1ALPHA, lymphoid enhancer binding factor-1

**Official Symbol:** LEF1

**Accession Number(s):** NP\_057353.1; NP\_001124185.1; NP\_001124186.1; NP\_001159591.1

**Human GeneID(s):** [51176](#)

**Non-Human GeneID(s):** 16842 (mouse), 161452 (rat)

### Immunogen

Peptide with sequence C-QHEQRKEQEPKRPH, from the internal region of the protein sequence according to NP\_057353.1; NP\_001124185.1; NP\_001124186.1; NP\_001159591.1.

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 1:32000.

**Western blot:** Approx 50--55kDa band observed in nuclear lysates of cell line K562 (calculated MW of 44.2kDa according to NP\_057353.1)/ This molecular weight is routinely observed by other sources and was successfully blocked by incubation with the immunising peptide . Recommended concentration: 1-3µg/ml. . Primary incubation 1 hour at room temperature.

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

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

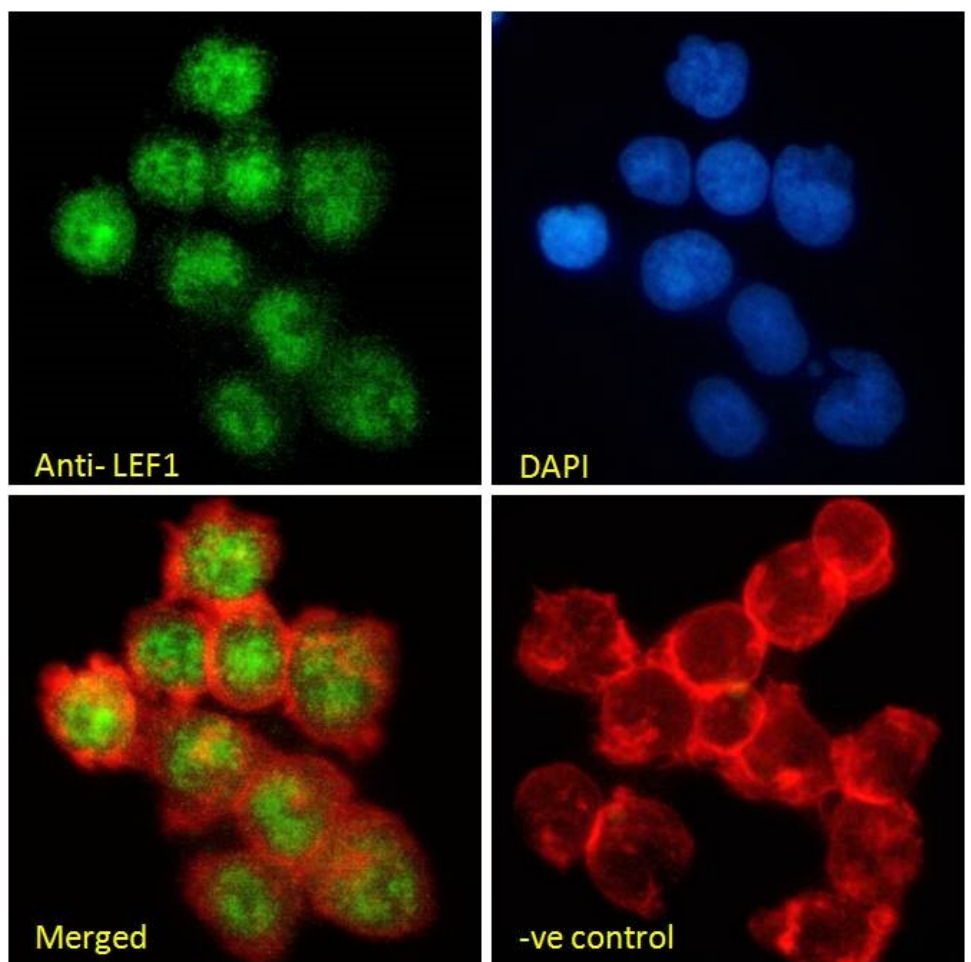
### Species Reactivity

**Tested:** Human

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

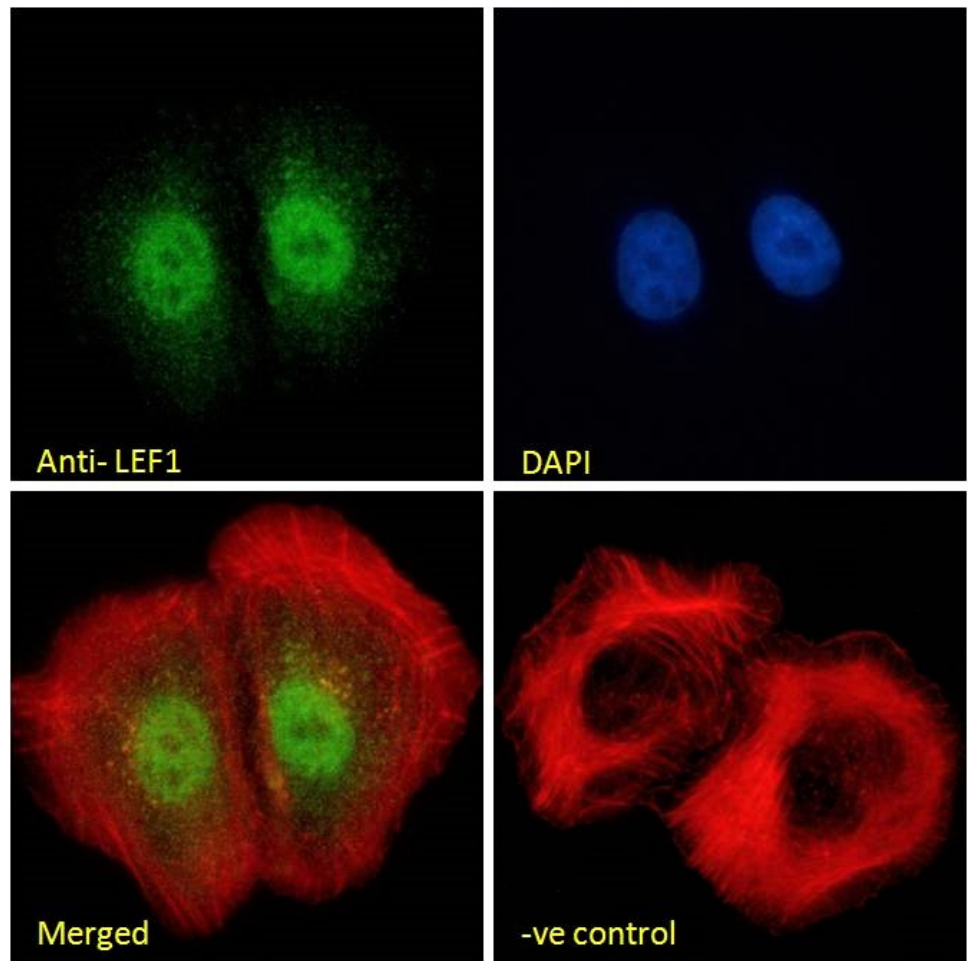


EB07196 (2 $\mu$ g/ml) staining of K562 nuclear cell lysate (A) + peptide (B). (35 $\mu$ g protein in RIPA buffer) Detected by chemiluminescence.



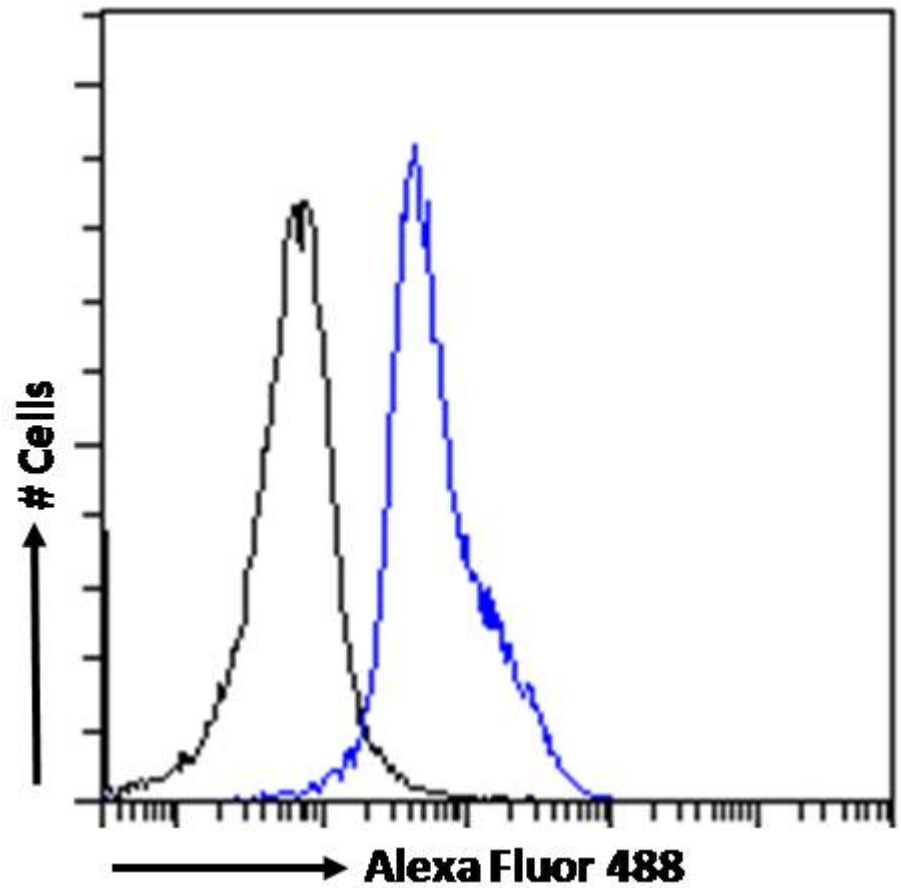
EB07196 Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07196 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07196 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.