



## UK Office

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

## EB06874 - Goat Anti-GATA1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** GATA1, GATA binding protein 1 (globin transcription factor 1), HGNC:4170, ERYF1, GF1, NFE1, GATA binding protein 1, GATA-binding protein 1 (globin transcription factor 1), erythrold transcription factor 1, globin transcription factor 1, transcription factor GATA1, GF-1, XLTT, NF-E1 DNA-binding protein, erythroid transcription factor 1

**Official Symbol:** GATA1

**Accession Number(s):** NP\_002040.1

**Human GeneID(s):** [2623](#)

### Immunogen

Peptide with sequence C-DAEAYRHSPVFQ, from the internal region of the protein sequence according to NP\_002040.1.

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 50-55kDa band observed in nuclear lysates of cell line K562 (calculated MW of 42.8kDa according to NP\_002040.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.3-1µg/ml. Primary incubation 1 hour at room temperature. **Negative Control:** Human Hippocampus lysate.

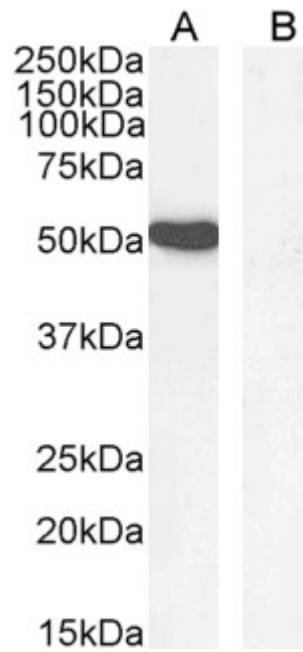
**Immunofluorescence:** Strong expression of the protein seen in the nuclei of HeLa and NIH3T3 cells. Recommended concentration: 10µg/ml.

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

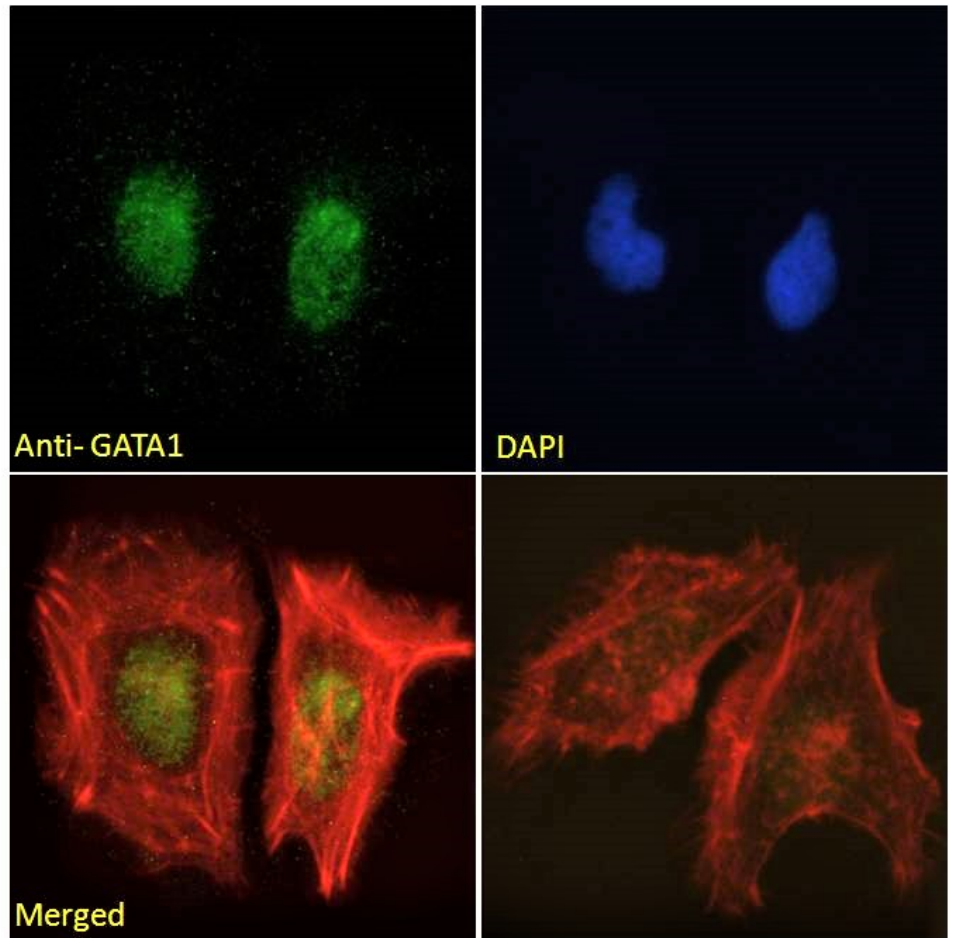
### Species Reactivity

**Tested:** Human, Mouse

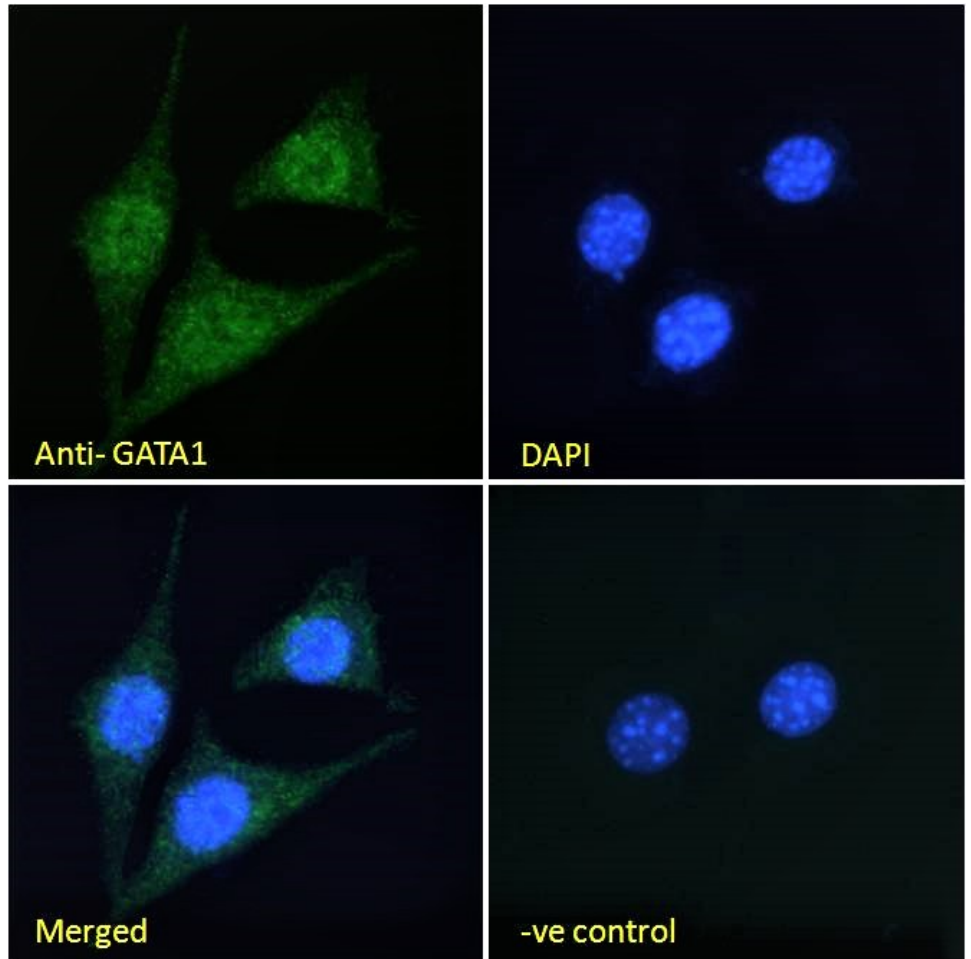
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow



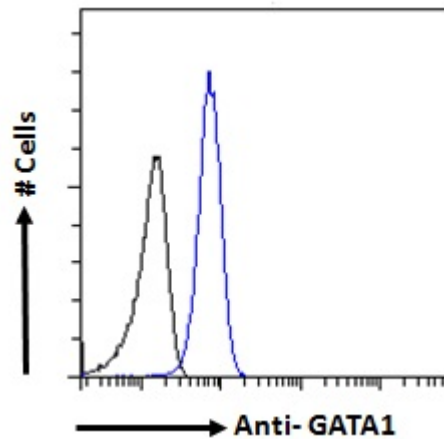
EB06874 (1 $\mu$ g/ml) staining of K562 nuclear cell lysate (A) and negative control Human Hippocampus (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB06874 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml).



EB06874 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06874 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.