## International Office

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# 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

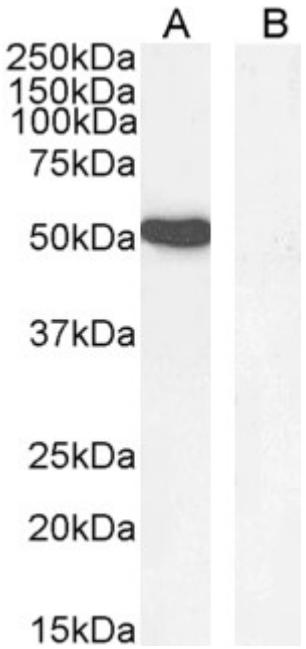
**Peptide ELISA:** antibody detection limit dilution 1:16000.
**Western blot:** Approx 50-55kDa band observed in nuclear lysates of cell line K562 calculated MW of 42.8kDa according to NP_002040.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.3-1µg/ml. Primary 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.

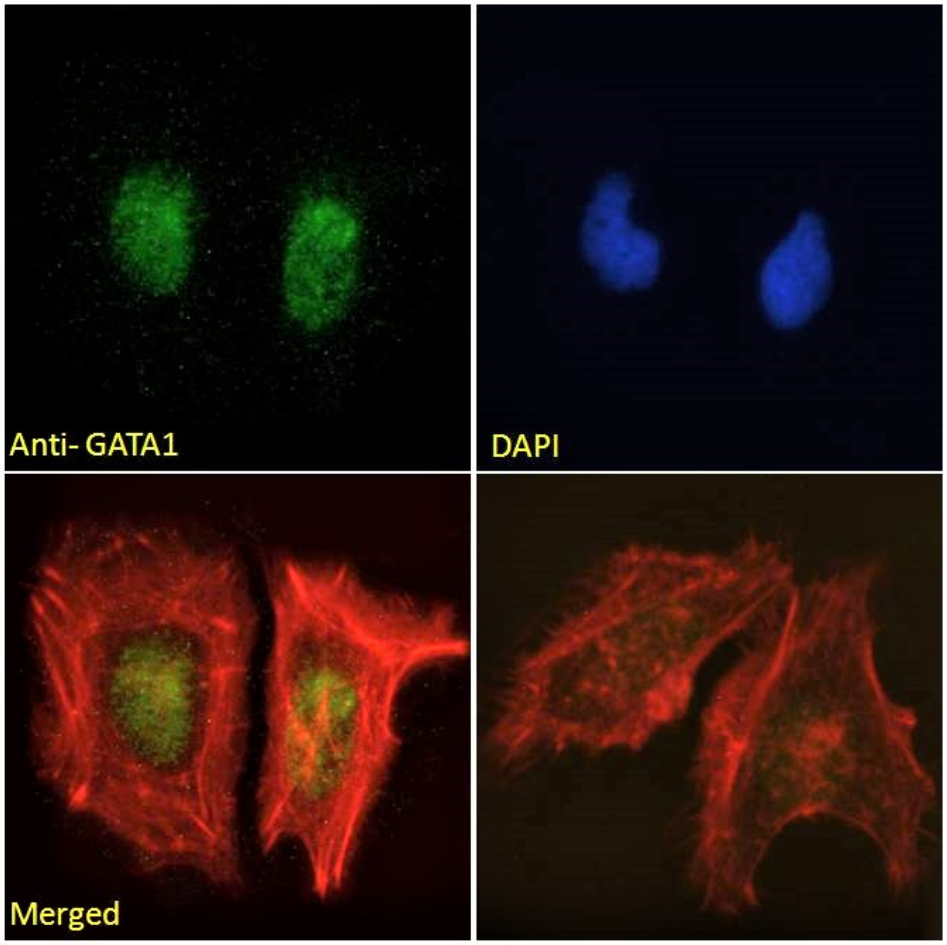
**Flow Cytometry:** Flow cytometric analysis of K562 cells. Recommended concentration: 10ug/ml.

## Species Reactivity

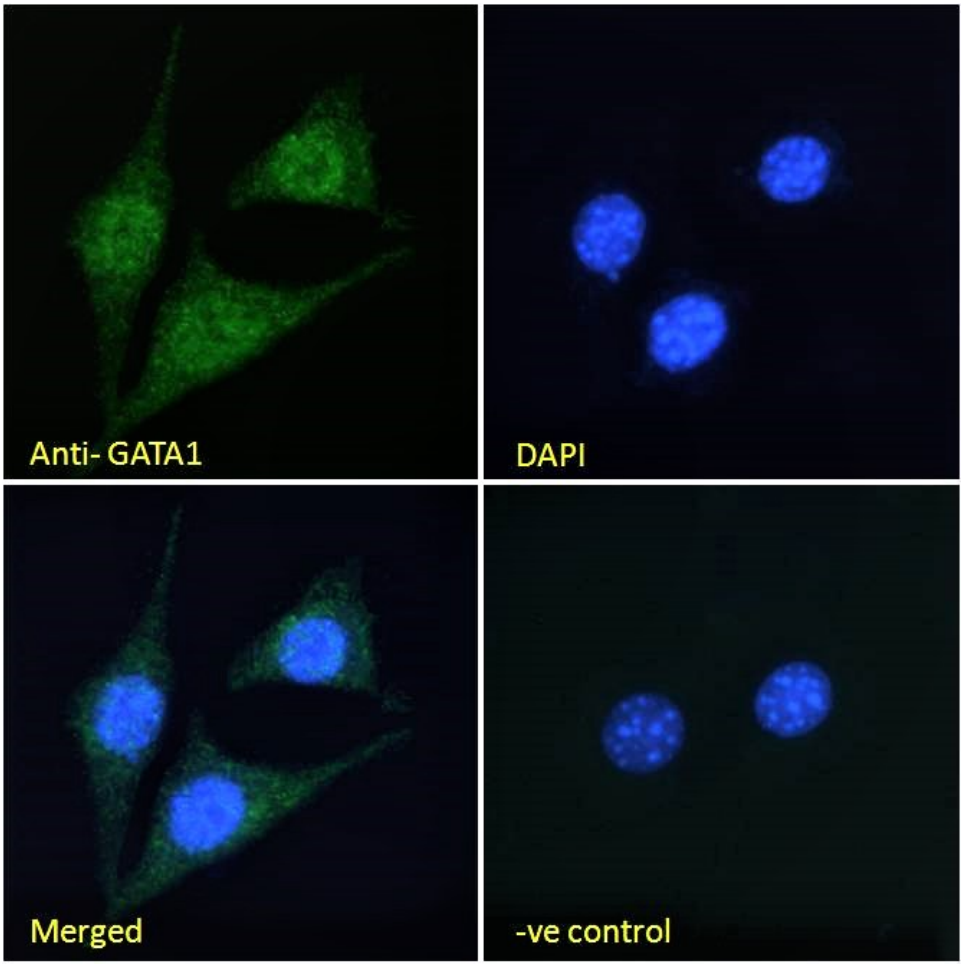
**Tested:** Human, Mouse
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow



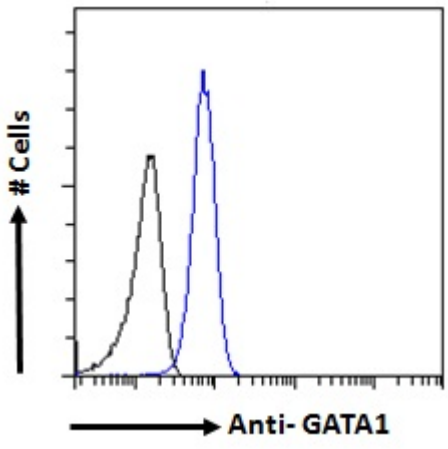

EB06874 (1µg/ml) staining of K562 nuclear cell lysate (A) and negative control Human Hippocampus (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.




EB06874 Immunofluorescence analysis of paraformaldehyde fixed HeLa 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).




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.