

## UK Office

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

## EB09448 - Goat Anti-SATB1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** SATB1, SATB homeobox 1, DNA-binding protein SATB1, special AT-rich sequence binding protein 1, special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA\1s)

**Official Symbol:** SATB1

**Accession Number(s):** NP\_002962.1; NP\_001182399.1; NP\_001309805.1

**Human GeneID(s):** [6304](#)

**Non-Human GeneID(s):** 20230 (mouse), 316164 (rat)

### Immunogen

Peptide with sequence C-ESDEENRQKTRPRT, from the internal region of the protein sequence according to NP\_002962.1; NP\_001182399.1; NP\_001309805.1.

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. 90kDa band observed in nuclear lysates of cell lines A431 and Jurkat and in lysates of cell lines U251 and Daudi (calculated MW of 89.0kDa according to NP\_001182399.1). Recommended concentration: 0.1-0.5µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** In paraffin embedded Human Thymus shows select nuclear staining. Recommended concentration: 3-5µg/ml.

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

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

### Species Reactivity

**Tested:** Human

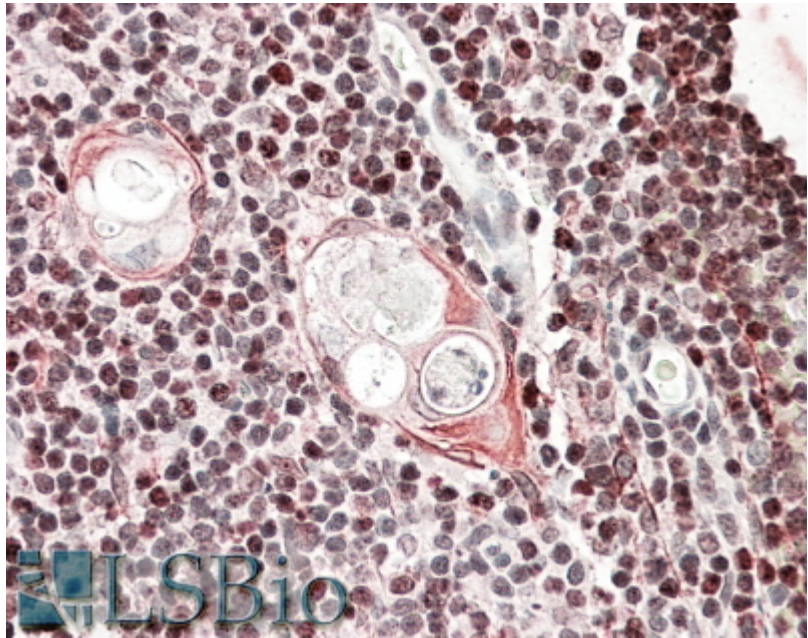
**Expected from sequence similarity:** Human, Mouse, Rat, Cow



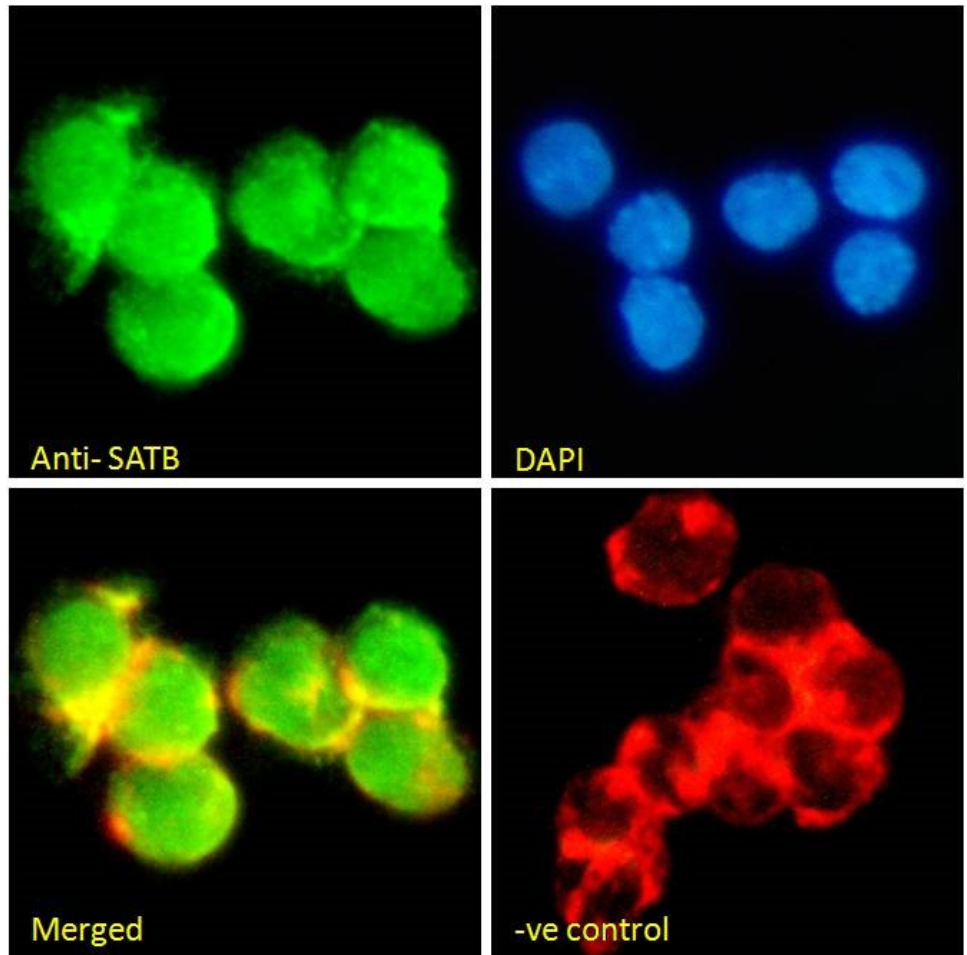
EB09448 (0.1µg/ml) staining of Jurkat (A) and (0.5µg/ml) A431 (B) nuclear cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



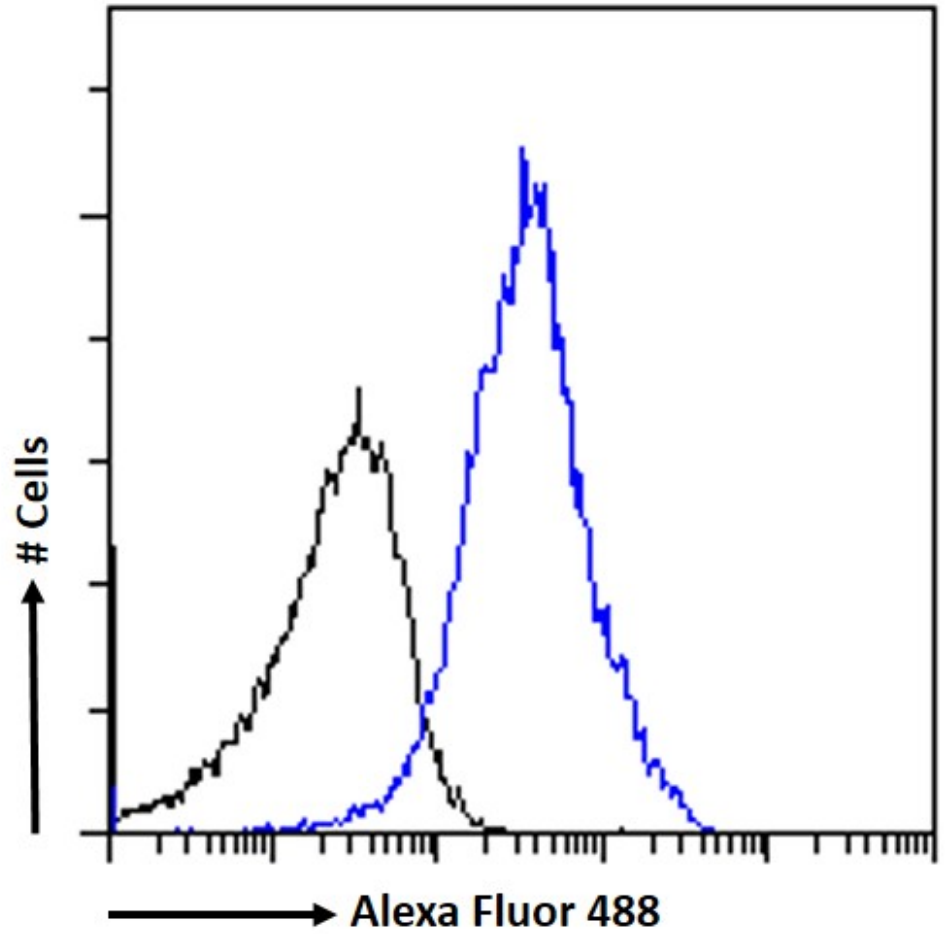
EB09448 (0.5µg/ml) staining of U251 (A) and Daudi (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB09448 (3.75µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09448 Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells immobilized on Shifit<sup>TM</sup> coverslip, 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).



EB09448 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.