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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.

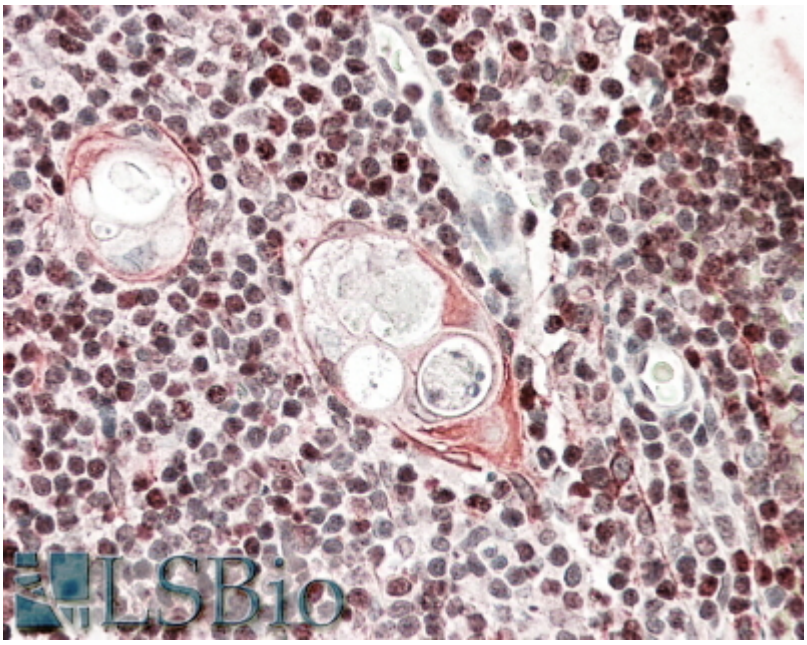
Flow Cytometry: Flow cytometric analysis of Jurkat cells. Recommended concentration: 10ug/ml.

Species Reactivity

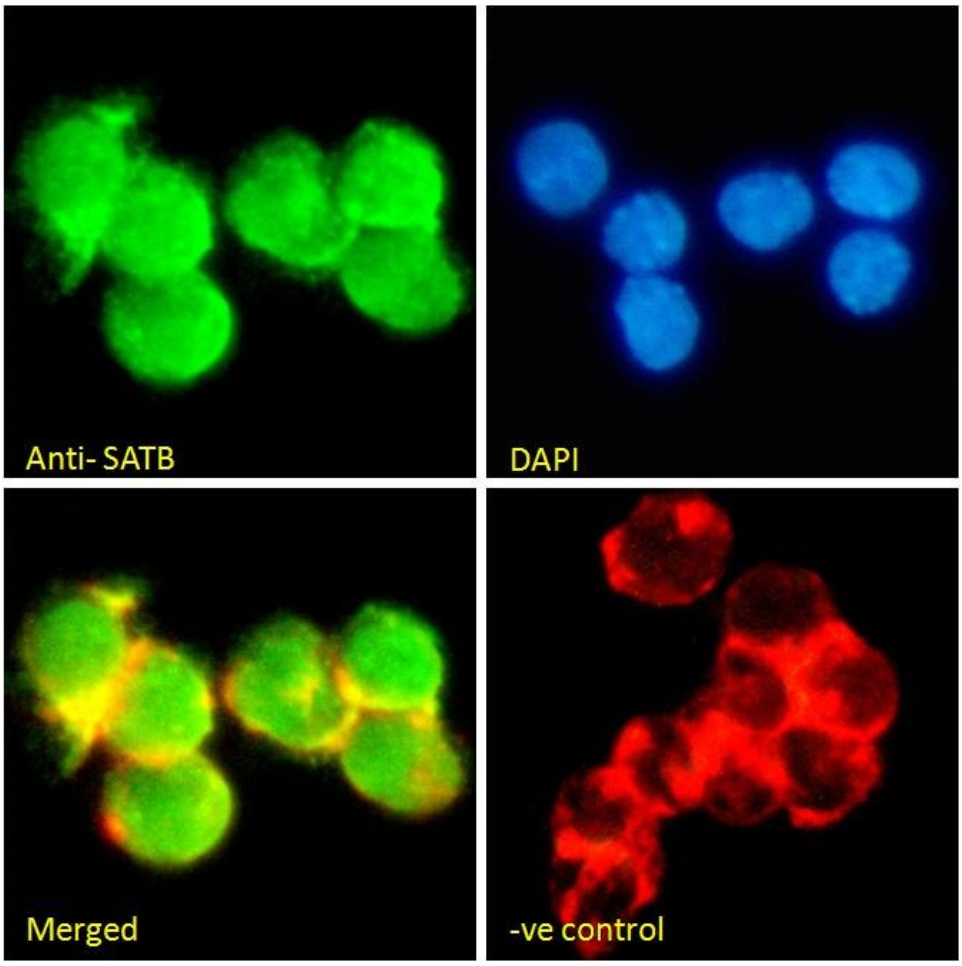
Tested: Human
Expected from sequence similarity: Human, Mouse, Rat, Cow

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.

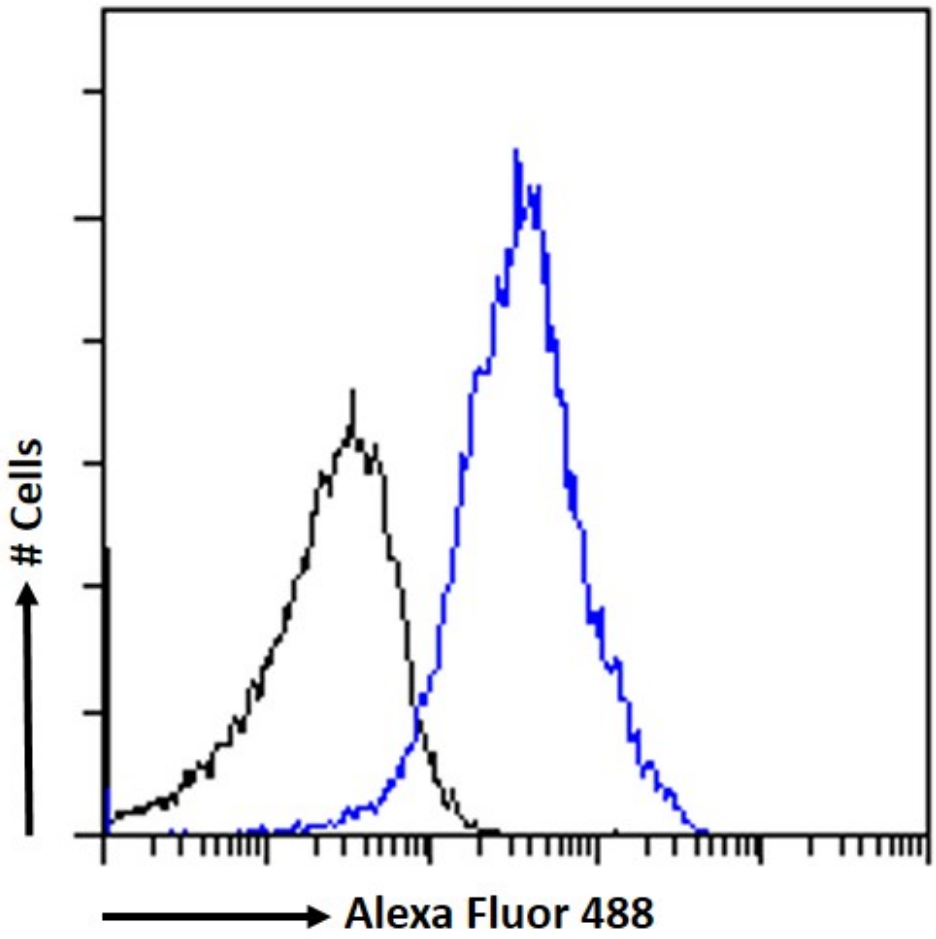
EB09448 (0.5µg/ml) staining of U251 (A) and Daudi (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



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 ShifixTM 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.