

## UK Office

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

## EB07741 - Goat Anti-TIA1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** TIA1, TIA1 cytotoxic granule-associated RNA binding protein, TIA1 cytotoxic granule-associated RNA-binding protein, TIA1 protein, cytotoxic granule-associated RNA-binding protein, p40-TIA-1 (containing p15-TIA-1)

**Official Symbol:** TIA1

**Accession Number(s):** NP\_071320.1; NP\_071505.1

**Human GeneID(s):** [7072](#)

**Non-Human GeneID(s):** 21841 (mouse), 312510 (rat)

**Important Comments:** This antibody is expected to recognise both reported isoforms (NP\_071320.1 and NP\_071505.1).

### Immunogen

Peptide with sequence C-PKSTYESNTKQ, from the internal region of the protein sequence according to NP\_071320.1; NP\_071505.1.

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 1:128000.

**Western blot:** Approx 40kDa band observed in lysates of cell line Jurkat (calculated MW of 41.8kDa according to NP\_071320.1). Recommended concentration: 0.1-0.3µg/ml. Primary incubation was 1 hour. An additional band at 80kDa and a very strong 26kDa is also observed. These bands were successfully blocked by incubation with the immunising peptide.

**IHC:** Paraffin embedded Human Thyroid. Recommended concentration: 3.75µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the nucleus and cytoplasm of HeLa cells. Recommended concentration: 5µg/ml.

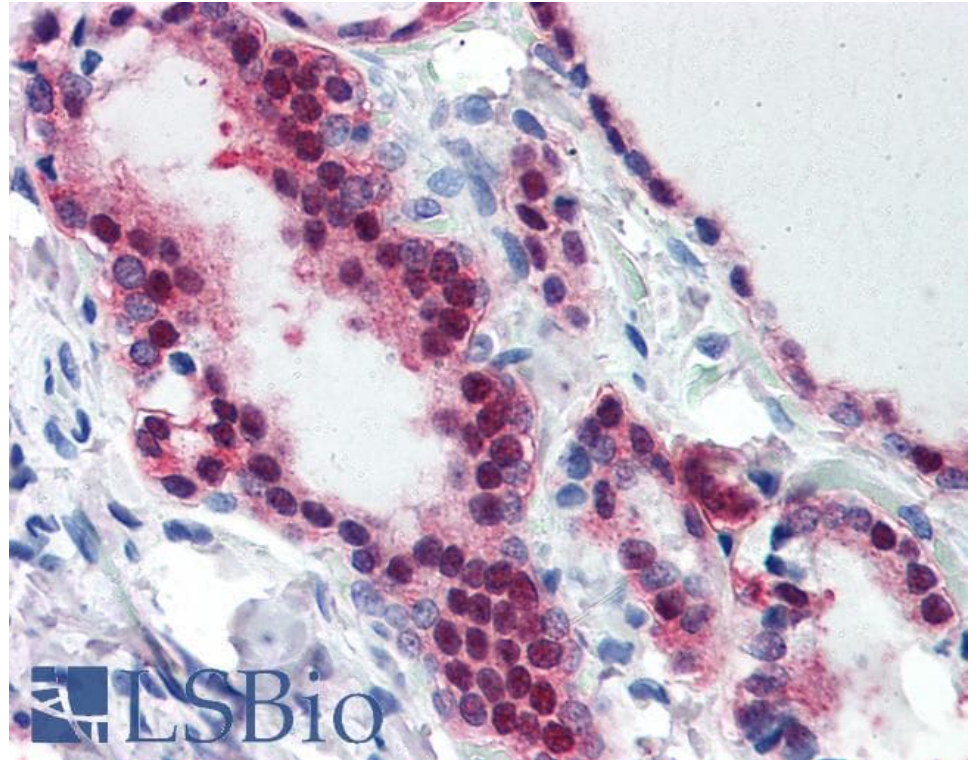
### Species Reactivity

**Tested:** Human

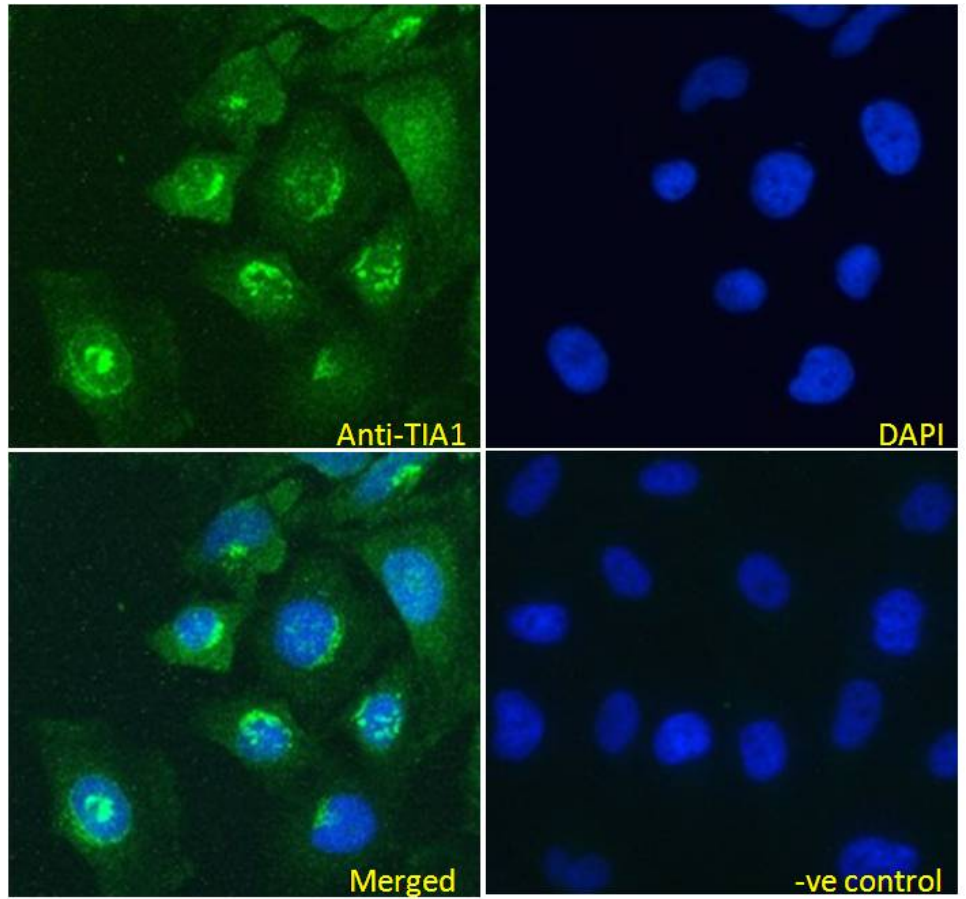
**Expected from sequence similarity:** Human, Mouse, Rat, Dog



EB07741 (0.1 $\mu$ g/ml) staining of Jurkat cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB07741 (3.75 $\mu$ g/ml) staining of paraffin embedded Human Thyroid. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07741 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and some cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).