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

## EB09146 - Goat Anti-S100A9 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** S100A9, S100 calcium binding protein A9, 60B8AG, CAGB, CFAG, CGLB, L1AG, LIAG, MAC387, MIF, MRP14, NIF, P14, S100 calcium binding protein A9 (calgranulin B), S100 calcium-binding protein A9, S100 calcium-binding protein A9 (calgranulin B), calgranulin B

**Official Symbol:** S100A9

**Accession Number(s):** NP\_002956.1

**Human GeneID(s):** [6280](#)

### Immunogen

Peptide with sequence C-DTNADKQLSFEEF, from the internal region of the protein sequence according to NP\_002956.1.

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 1:8000.

**Western blot:** Approx 13-14kDa band observed in Human Bone Marrow lysates and approx 14-15kDa in Human Gastrointestinal cancer lysates (calculated MW of 13.2kDa according to NP\_002956.1). Recommended concentration: 0.5-2µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Lung. Recommended concentration: 2-4µg/ml. Paraffin embedded Human Spleen. Recommended concentration: 6-7µg/ml.

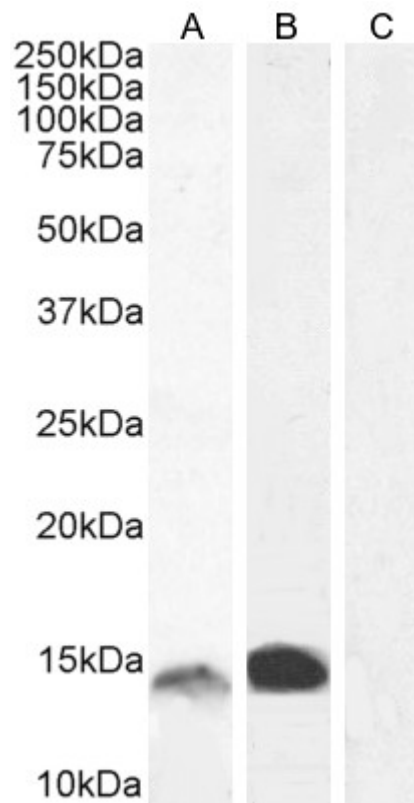
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm and nuclei of MCF7, U2OS and THP-1 cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of MCF7 cells. Recommended concentration: 10µg/ml.

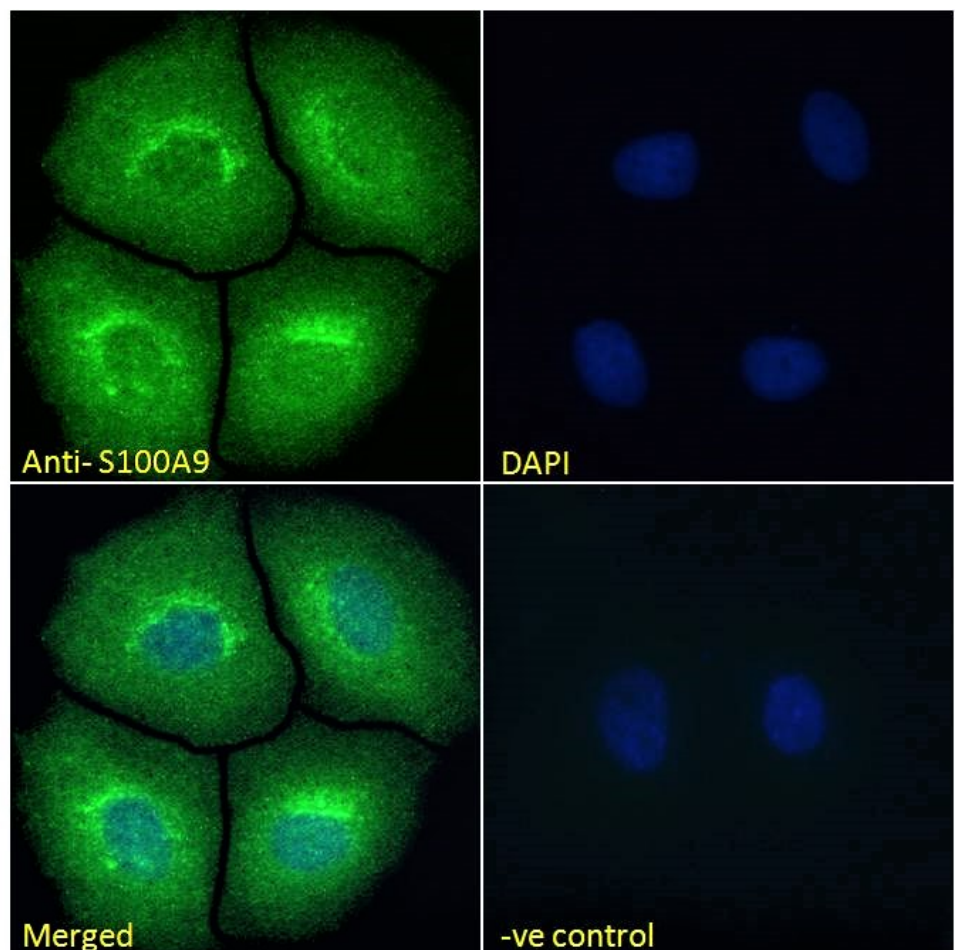
### Species Reactivity

**Tested:** Human

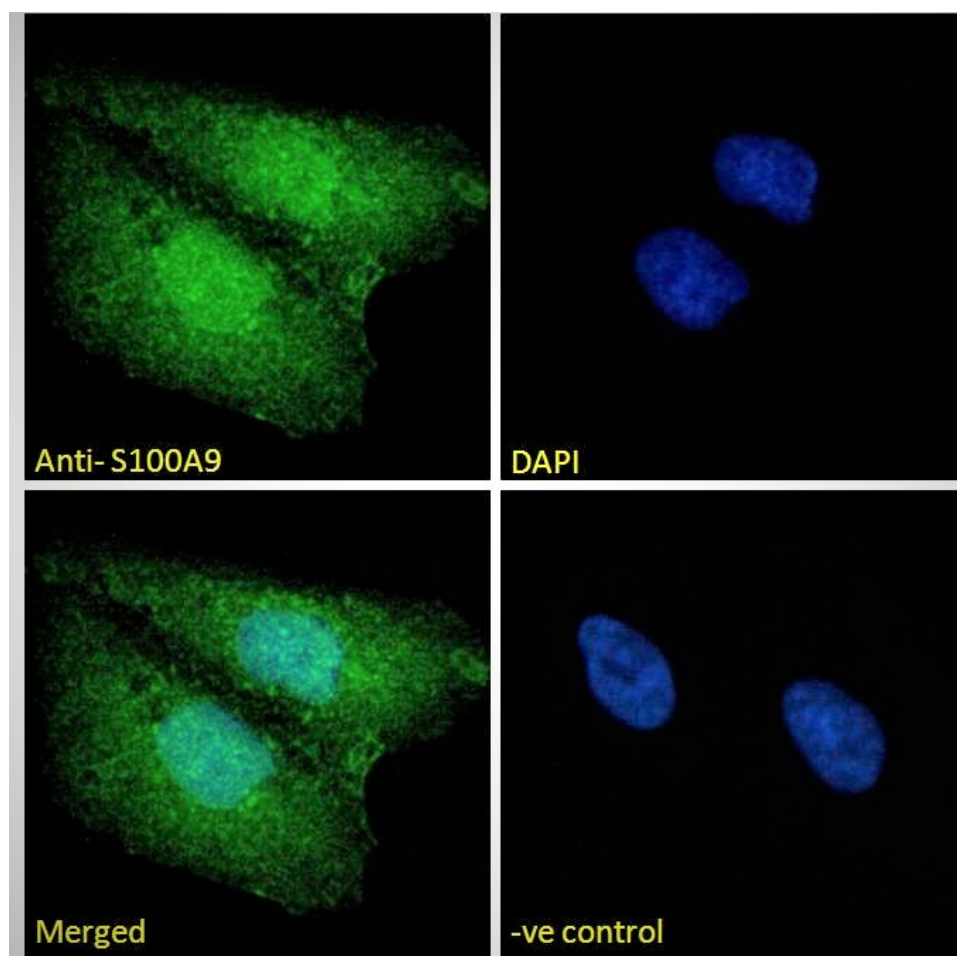
**Expected from sequence similarity:** Human



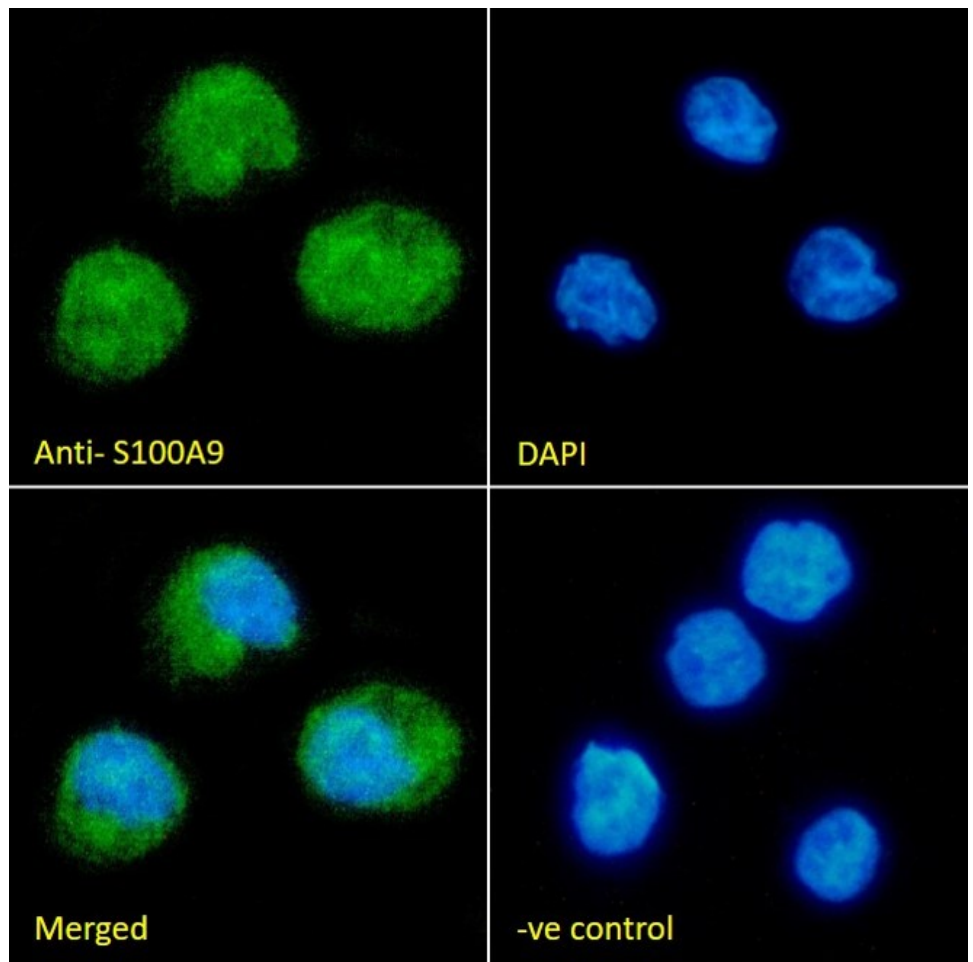
EB09146 (1 $\mu$ g/ml) staining of Human Bone Marrow (A) and (0.5 $\mu$ g/ml) Gastrointestinal cancer (B) lysate and negative control HepG2 (C) lysate. 5 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



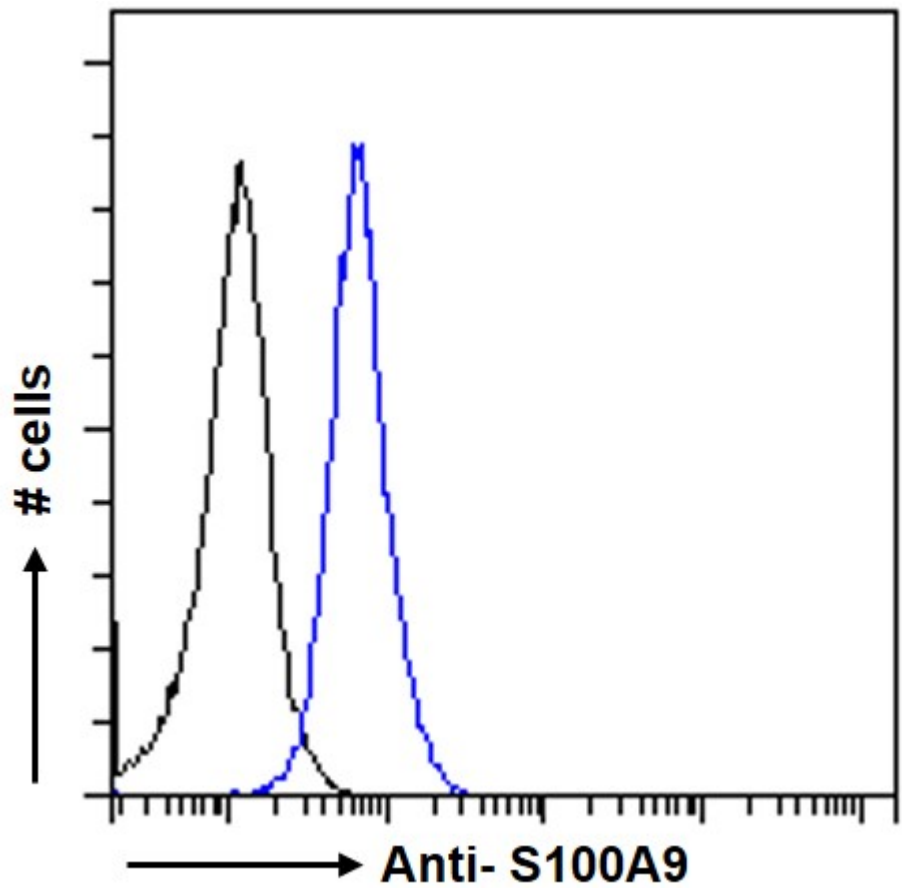
EB09146 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



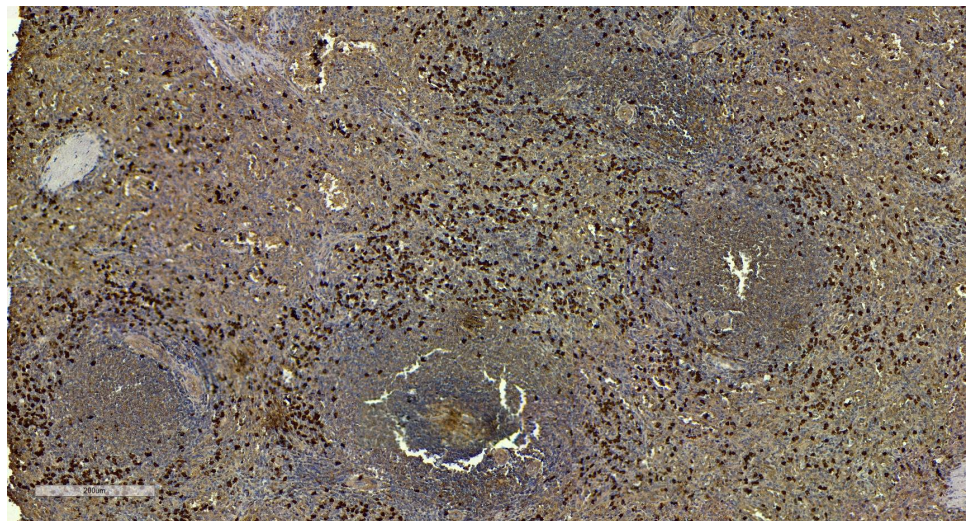
EB09146 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09146 Immunofluorescence analysis of paraformaldehyde fixed THP-1 cells immobilized on Shifix™ coverslip, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

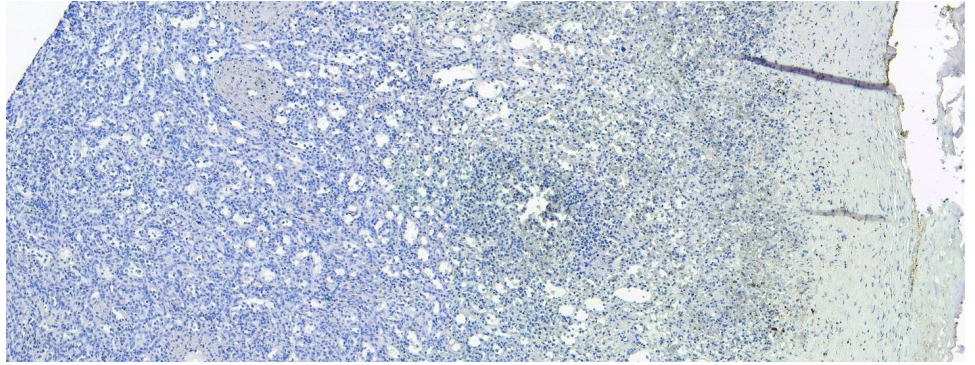


EB09146 Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

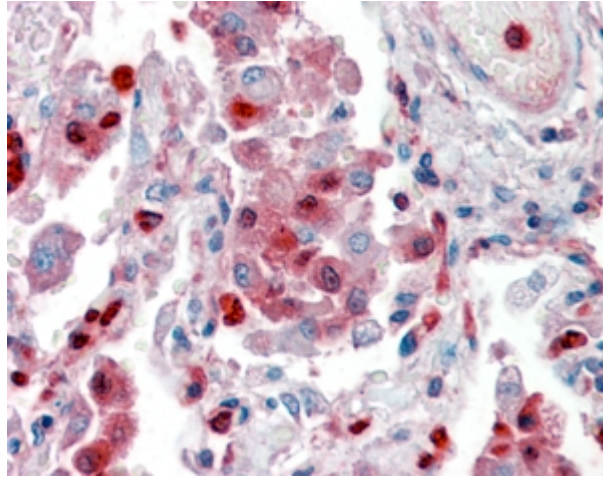


EB09146 (7µg/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.





EB09146 Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



EB09146 (2.5µg/ml) staining of paraffin embedded Human Lung. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.