

## UK Office

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

## EB06353 - Goat Anti-BRG1 / SMARCA4 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** SMARCA4, BRG1, BAF190, SNF2L4, SNF2LB, hSNF2B, hSNF2b, SNF2-BETA, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, SNF2-beta, SNF2-like 4, nuclear protein GRB1, brahma protein-like 1, BRM/SWI2-related gene 1, homeotic gene regulator, sucrose nonfermenting-like 4, mitotic growth and transcription activator, global transcription activator homologous sequence

**Official Symbol:** SMARCA4

**Accession Number(s):** NP\_001122321.1; NP\_003063.2; NP\_001122317.1; NP\_001122318.1; NP\_001122319.1; NP\_001122320.1

**Human GeneID(s):** [6597](#)

**Non-Human GeneID(s):** 20586 (mouse), 171379 (rat)

**Important Comments:** This antibody is expected to recognize all reported isoforms (NP\_001122321.1; NP\_003063.2; NP\_001122317.1; NP\_001122318.1; NP\_001122319.1; NP\_001122320.1). Reported variants NP\_003063.2 and NP\_001122316.1 represent identical protein.

### Immunogen

Peptide with sequence STDPDPLGGTPRP-C, from the N Terminus of the protein sequence according to NP\_001122321.1; NP\_003063.2; NP\_001122317.1; NP\_001122318.1; NP\_001122319.1; NP\_001122320.1.

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. 200-250kDa band observed in nuclear lysates of cell line Jurkat (calculated MW of 185kDa according to NP\_003063.2). This molecular weight is observed by other commercial sources, and was blocked by incubation with the immunizing peptide. Recommended concentration: 0.01-0.03µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Small Intestine, Tonsil and Prostate. Recommended concentration: 3.75µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the nuclei of A431 and U2OS cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of A431 cells. Recommended concentration: 10µg/ml.

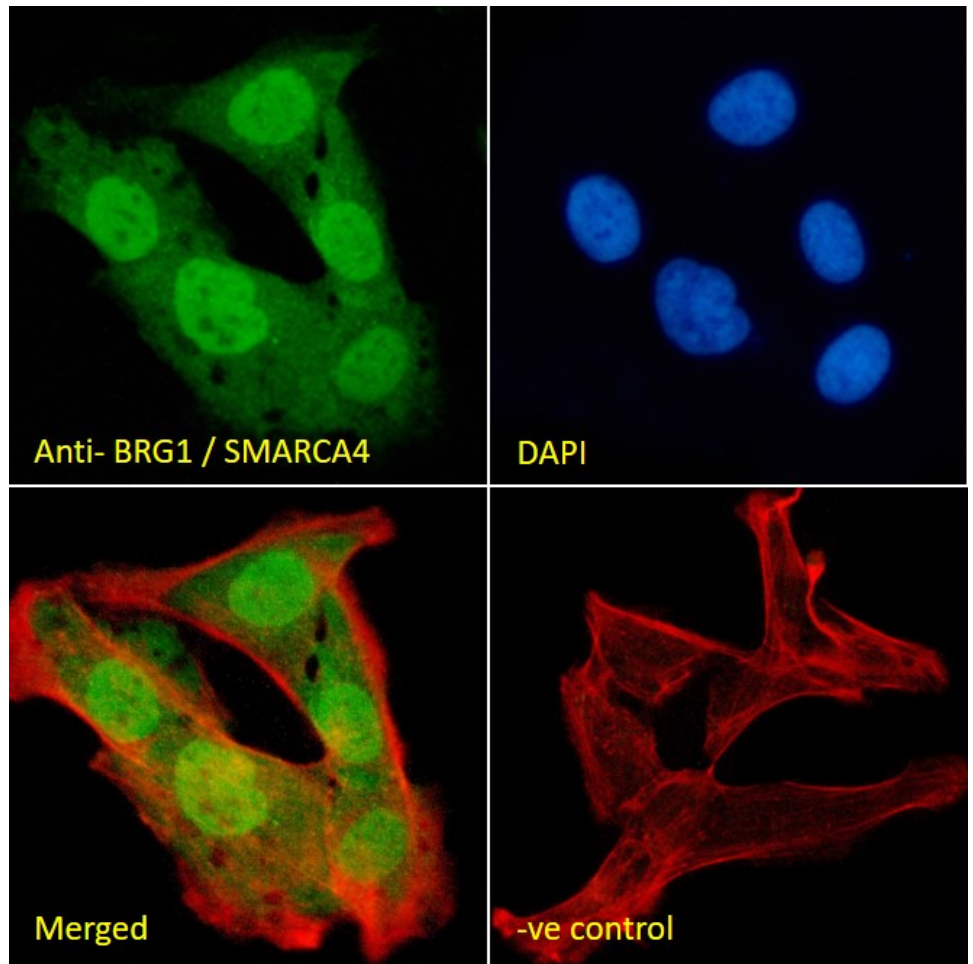
### Species Reactivity

**Tested:** Human

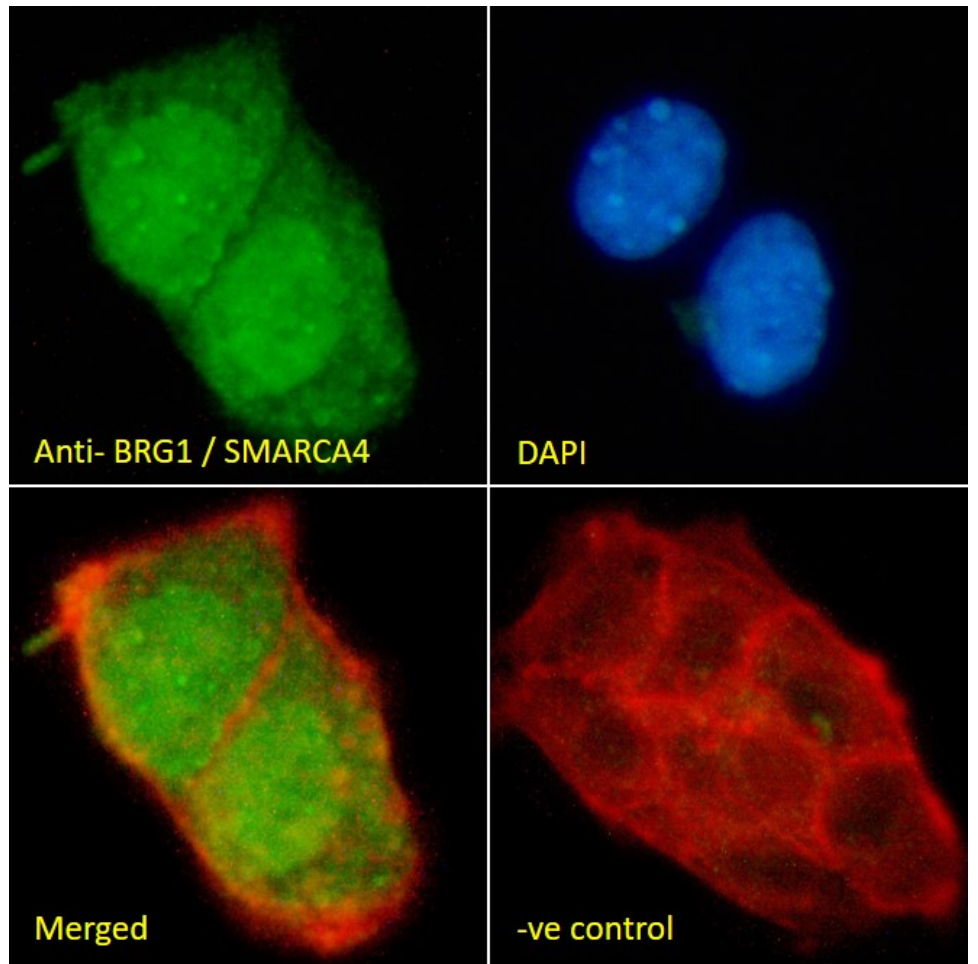
**Expected from sequence similarity:** Human, Mouse, Rat, Dog



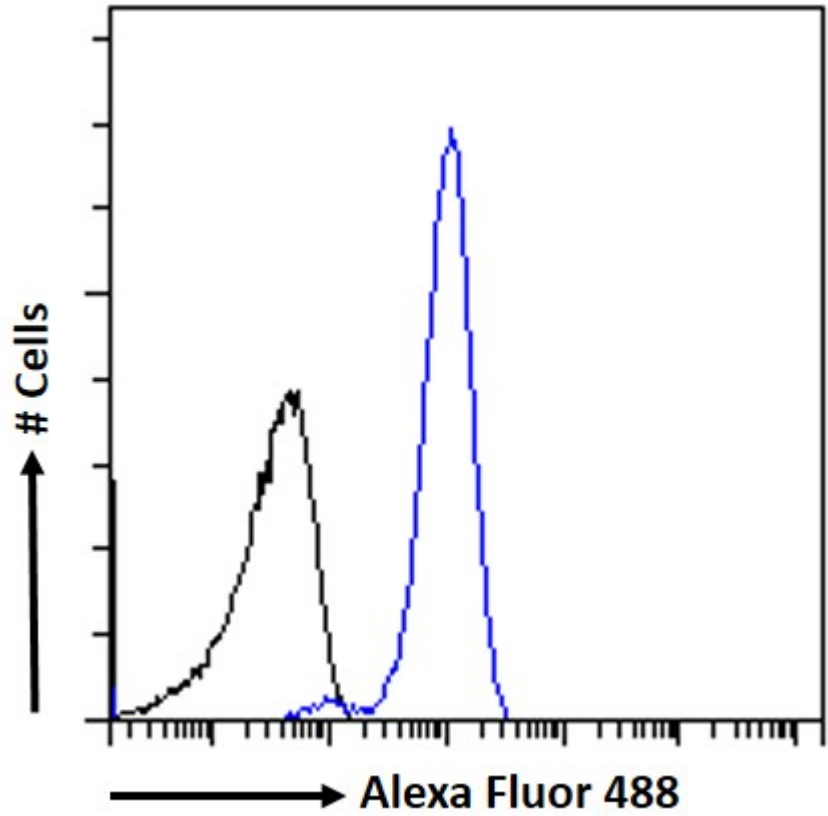
EB06353 (0.01ug/ml) staining of nuclear Jurkat cell lysate (A) + peptide (B). (35µg protein in RIPA buffer).  
Detected by chemiluminescence.



EB06353 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 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).



EB06353 Immunofluorescence analysis of paraformaldehyde fixed A431 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).

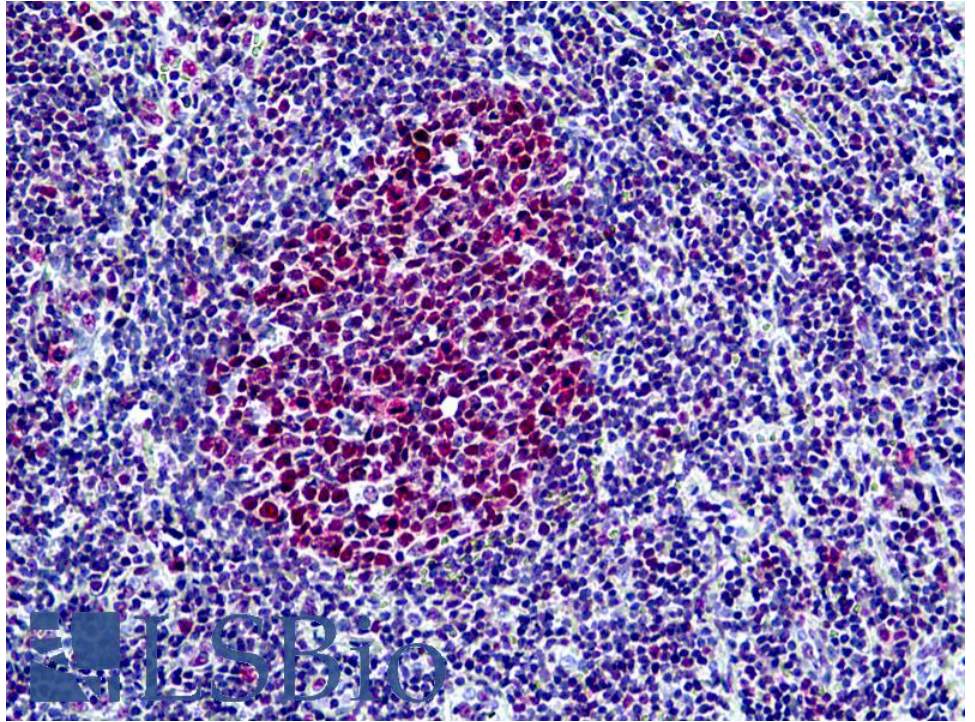


EB06353 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

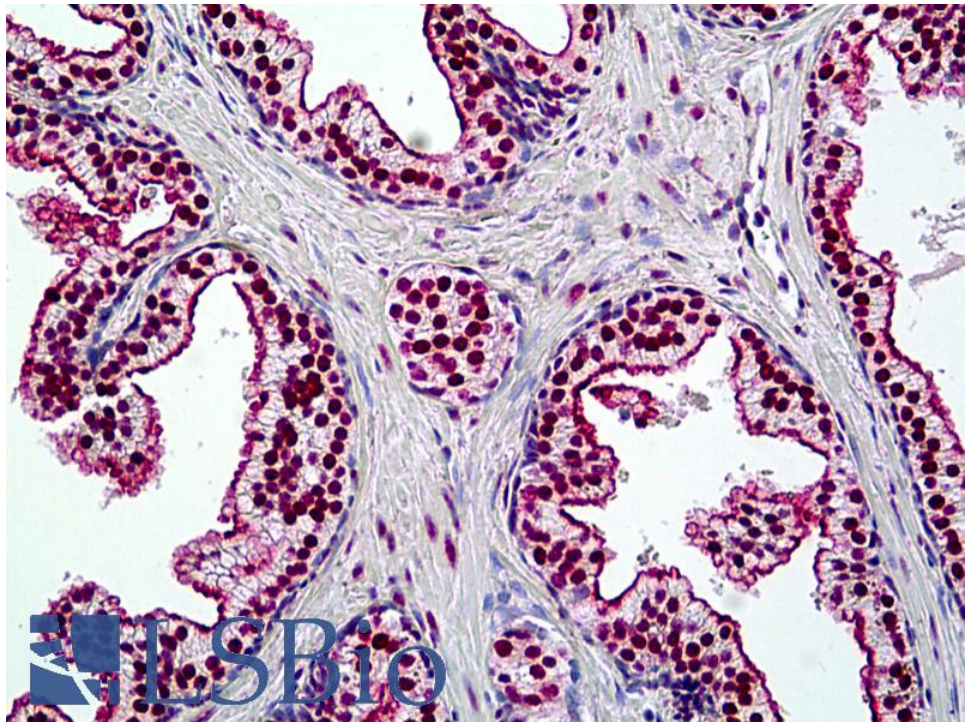


EB06353 (3.75µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.





EB06353 (3.75µg/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06353 (3.75µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.