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EB06344 - Goat Anti-BAF53A and BAF53B Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: BAF53A, BAF53B, ACTL6, BAF53a, BAF53b, actin-like 6A, actin-like 6B, hArpN alpha, actin-related protein, ACTL6A, ACTL6B, 53 kDa BRG1-associated factor B, ARPN-BETA, Arp4, INO80K, MGC5382, BAF complex 53 kDa subunit, BAF53, BRG1-associated factor, INO80 complex subunit K, actin-related protein 4, hArpN beta
Official Symbol: ACTL6A / ACTL6B
Accession Number(s): NP_004292.1; NP_817126.1; NP_057272.1
Human GeneID(s): 51412 , 86
Important Comments: This antibody is expected to recognise BAF53A isoforms 1 and 2 and BAF53B, which are almost identical

Immunogen

Peptide with sequence YEEGGKQCVERKCP, from the C Terminus of the protein sequence according to NP_004292.1; NP_817126.1; NP_057272.1.

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 48kDa band observed in Rat Skeletal Muscle lysates and approx. 50kDa in nuclear lysates of cell line NIH3T3 and in preliminary testing of Human Colorectal cancer and Mouse Skeletal Muscle lysate.(predicted MW of 47.4kDa (Actl6a) according to Mouse NP_062647.2 and Rat NP_001034122.1 and 46.9kDa (Actl6b) according to Mouse NP_113581.1 and Rat NP_001099387.2) Recommended concentration:0.5-2µg/ml. Primary incubation 1 hour at room temperature.

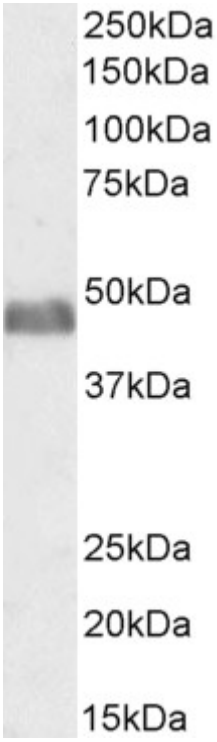
Immunofluorescence: Strong expression of the protein seen in the nuclei of A431 and U2OS cells. Recommended concentration: 10µg/ml.

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

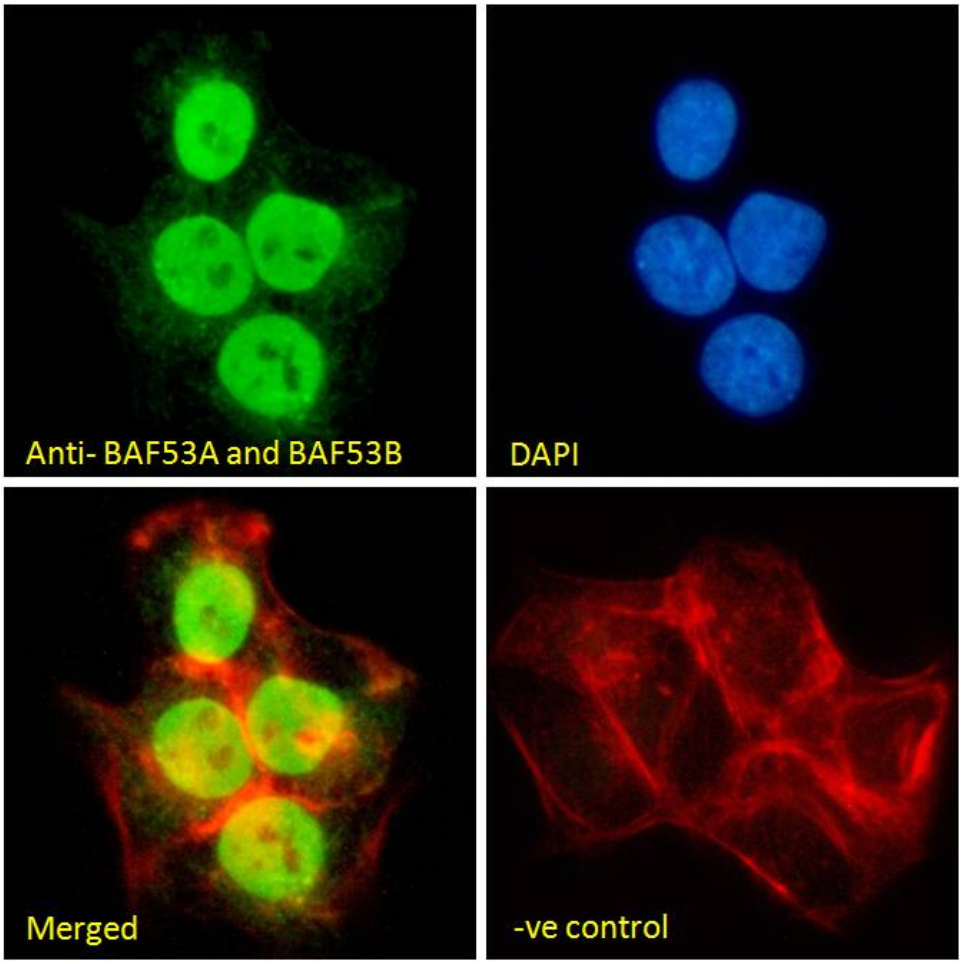
Species Reactivity

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

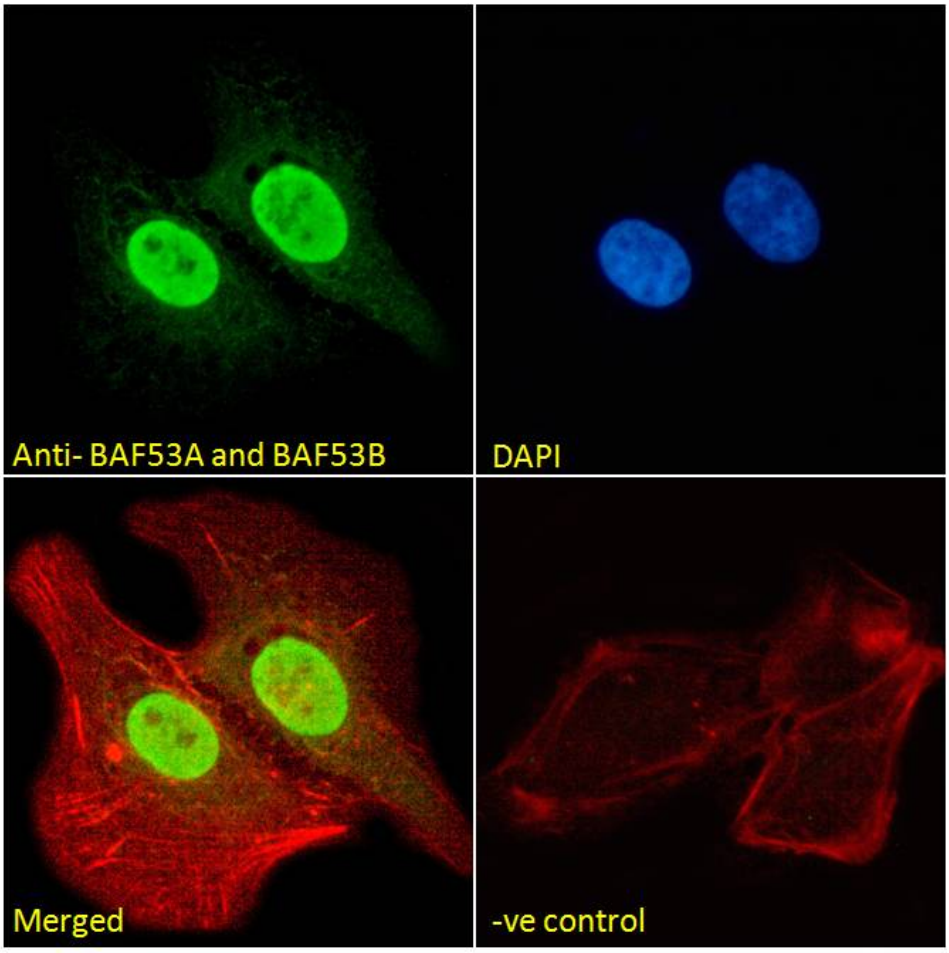
EB06344 (2µg/ml) staining of Rat Skeletal Muscle lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



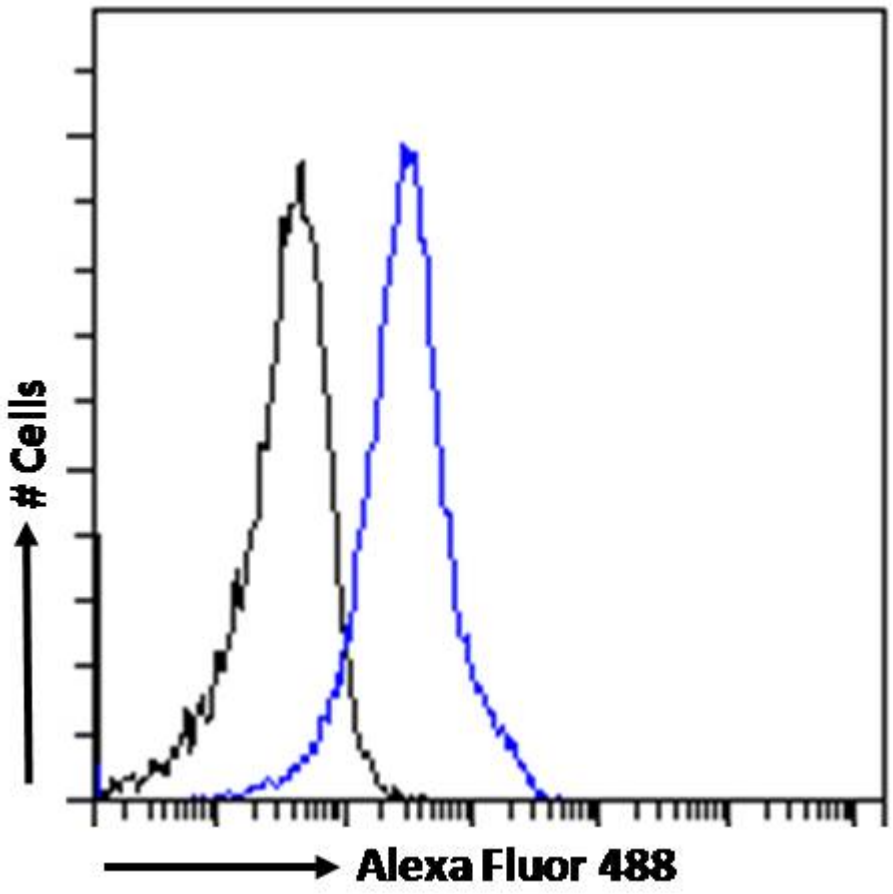
EB06344 (0.5µg/ml) staining of NIH3T3 nuclear cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06344 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).



EB06344 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).



EB06344 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.