## UK Office

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# EB09301 - Goat Anti-Connexin 43 / GJA1 Antibody

Size: 100µg specific antibody in 200µl

## Target Protein

**Principal Names:** GJA1, gap junction protein, alpha 1, 43kDa, CX43, DFNB38, GJAL, ODDD, connexin 43, gap junction 43 kDa heart protein, gap junction protein, alpha-like
**Official Symbol:** GJA1
**Accession Number(s):** NP_000156.1
**Human GeneID(s):** 2697
**Non-Human GeneID(s):** 24392 (rat)

## Immunogen

Peptide with sequence C-QPFDFPDDNQNSKK, from the internal region of the protein sequence according to NP_000156.1.

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. 40kDa band observed in Human Cerebellum lysates (calculated MW of 43.0kDa according to NP_000156.1). Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

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

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

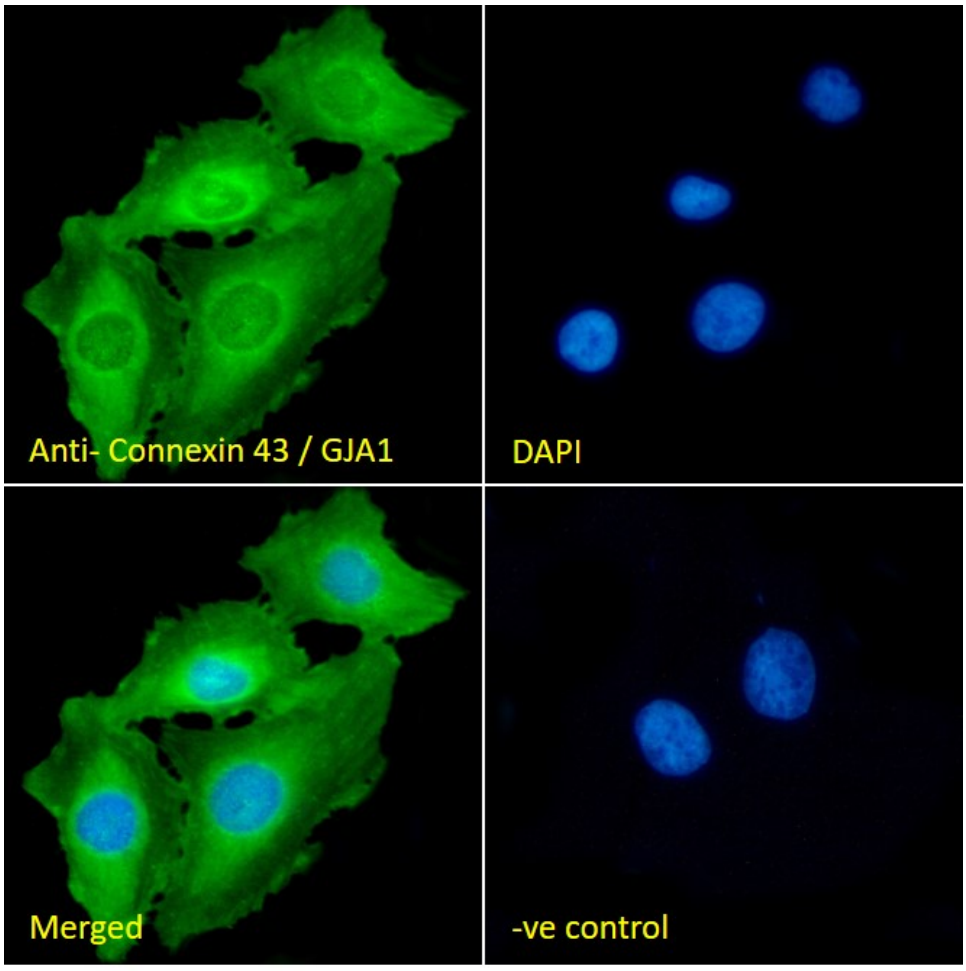
## Species Reactivity

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

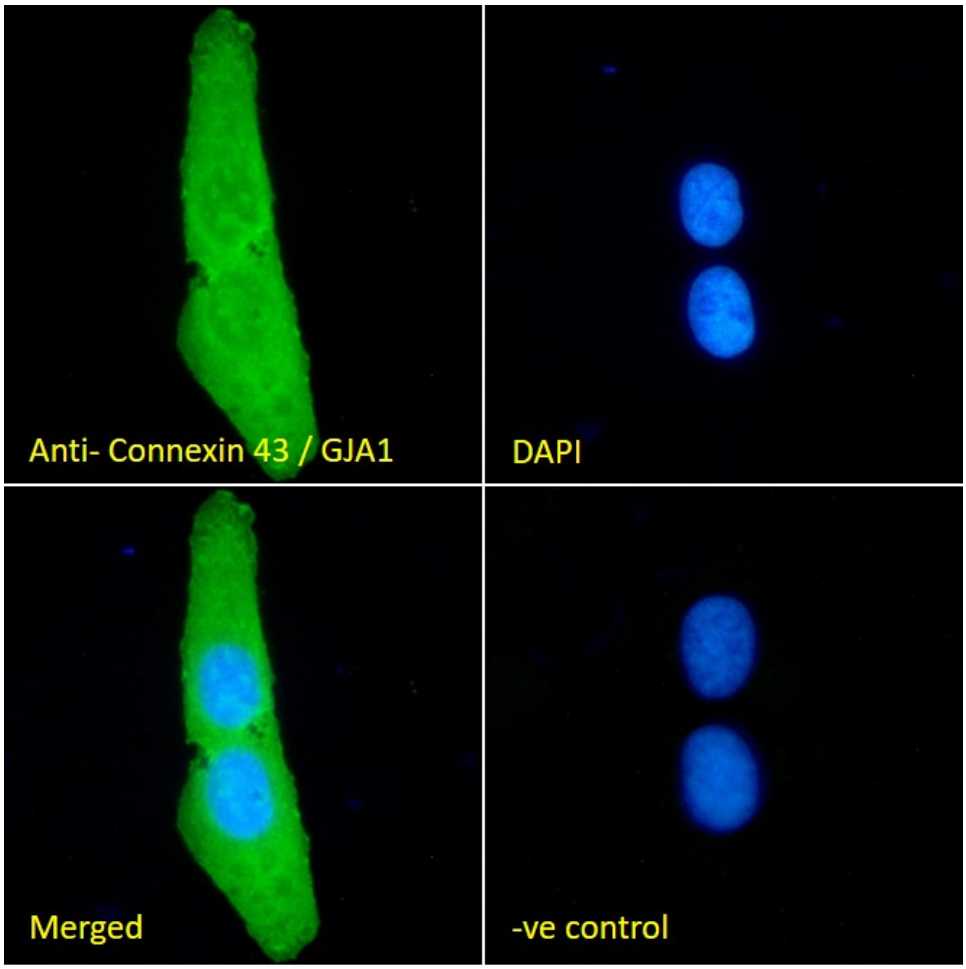
## Specific Reference

**This antibody (previous batch) has been successfully used in IF on Rat:**
Lee-Kubli CA, Ingves M, Henry KW, Shiao R, Collyer E, Tuszynski MH, Campana WM. Analysis of the behavioral, cellular and molecular characteristics of pain in severe rodent spinal cord injury.
Exp Neurol. 2016 Apr; 278:91-104.
PMID: 26808661

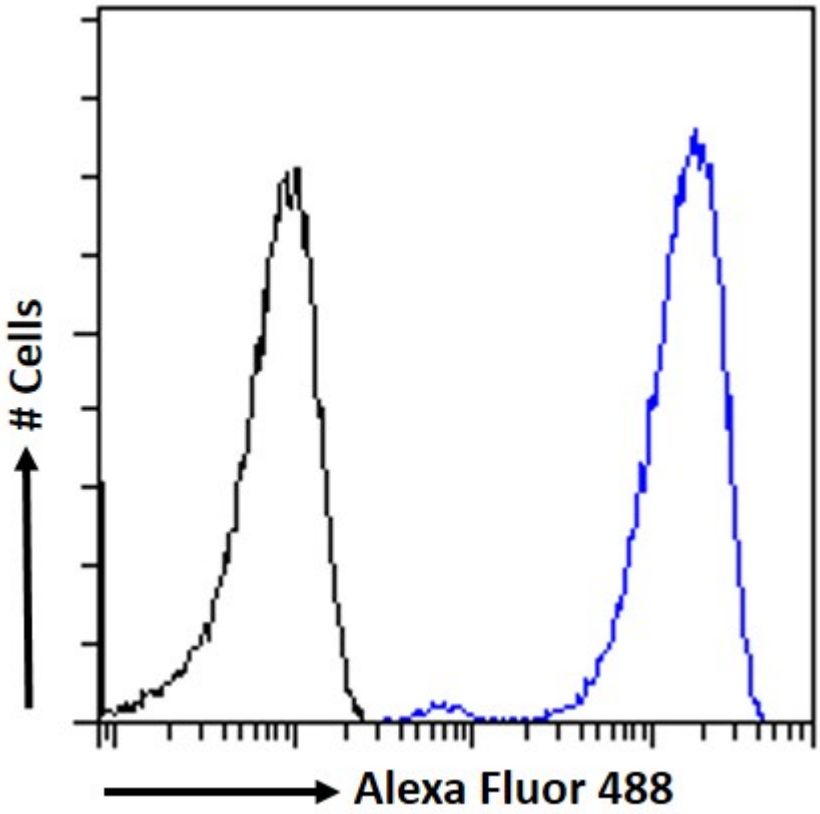

EB09301 (0.1µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB09301 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).




EB09301 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 cytoplasmic, plasma membrane 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).




EB09301 Flow cytometric analysis of paraformaldehyde fixed HeLa 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.