



## International Office

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

## EB07440 - Goat Anti-XRCC4-like factor / NHEJ1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** NHEJ1, XRCC4-like factor, nonhomologous end-joining factor 1, FLJ12610, XLF, Cernunnos

**Official Symbol:** NHEJ1

**Accession Number(s):** NP\_079058.1; NP\_001364428.1

**Human GeneID(s):** [79840](#)

### Immunogen

Peptide with sequence C-QRPQLSKVKRKKPR, from the C Terminus of the protein sequence according to NP\_079058.1; NP\_001364428.1.

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 1:64000.

**Western blot:** Approx. 38kDa band observed in nuclear lysates of cell lines HeLa, A431, Jurkat and K562, and approx. 37kDa in Human Skeletal muscle and in nuclear lysates of cell line HepG2 (calculated size of 33.3kDa according to NP\_079058.1). These molecular weights have been observed by other sources. Recommended concentration 0.03-0.1µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** In paraffin embedded Human Placenta shows nuclear staining in trophoblasts. Recommended concentration: 2.5-3.8µg/ml.

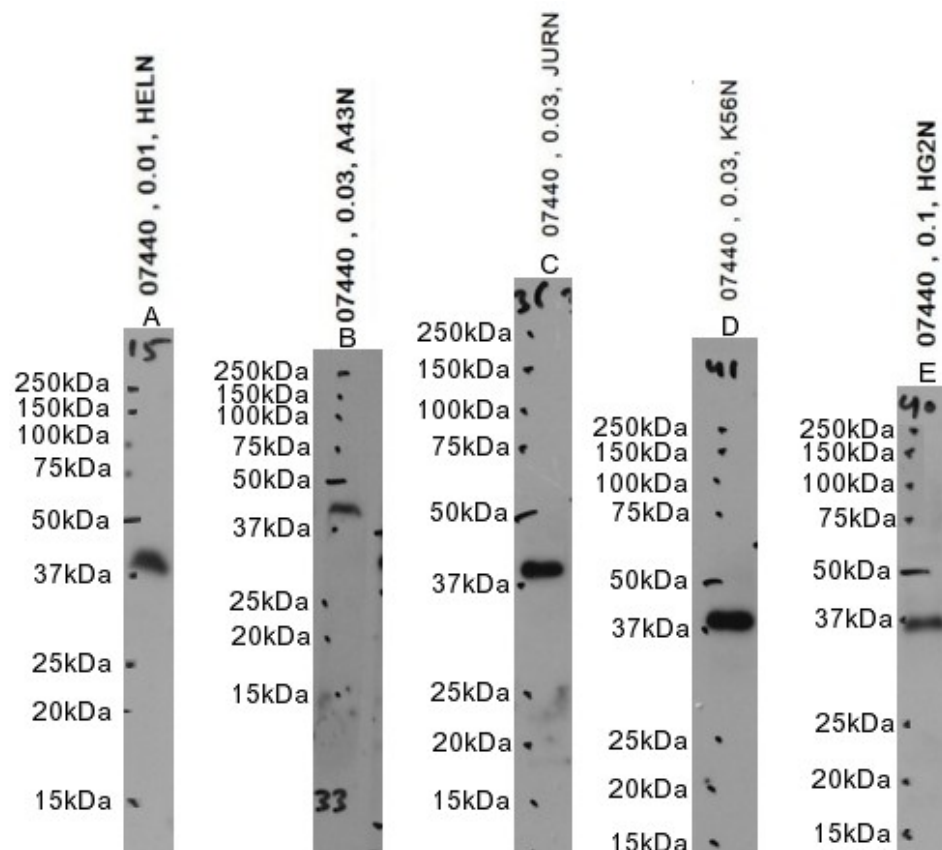
**Immunofluorescence:** Strong expression of the protein seen in HepG2 and U2OS cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HepG2 cells. Recommended concentration: 10ug/ml.

### Species Reactivity

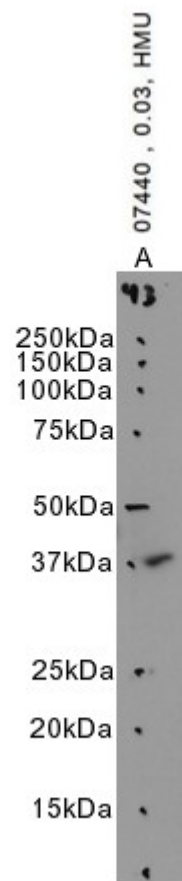
**Tested:** Human

**Expected from sequence similarity:** Human

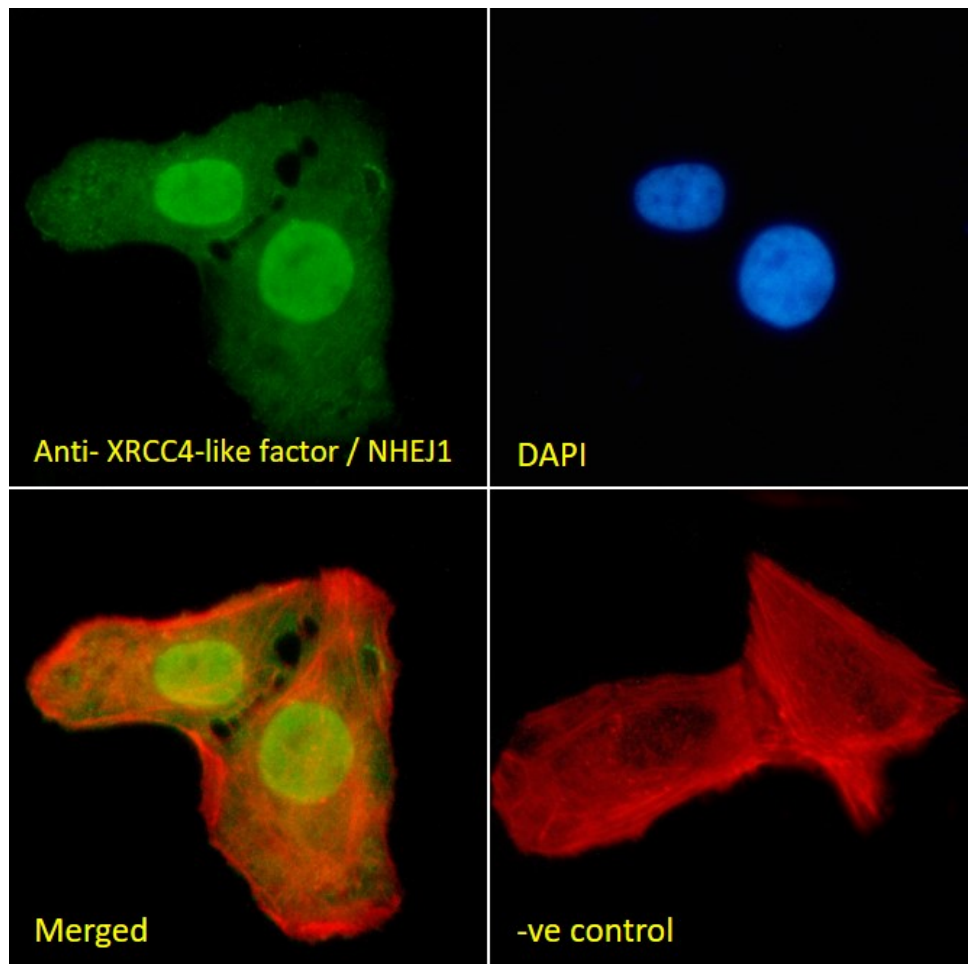


EB07440 optimised QC. Primary incubation 1 hour at room temperature.

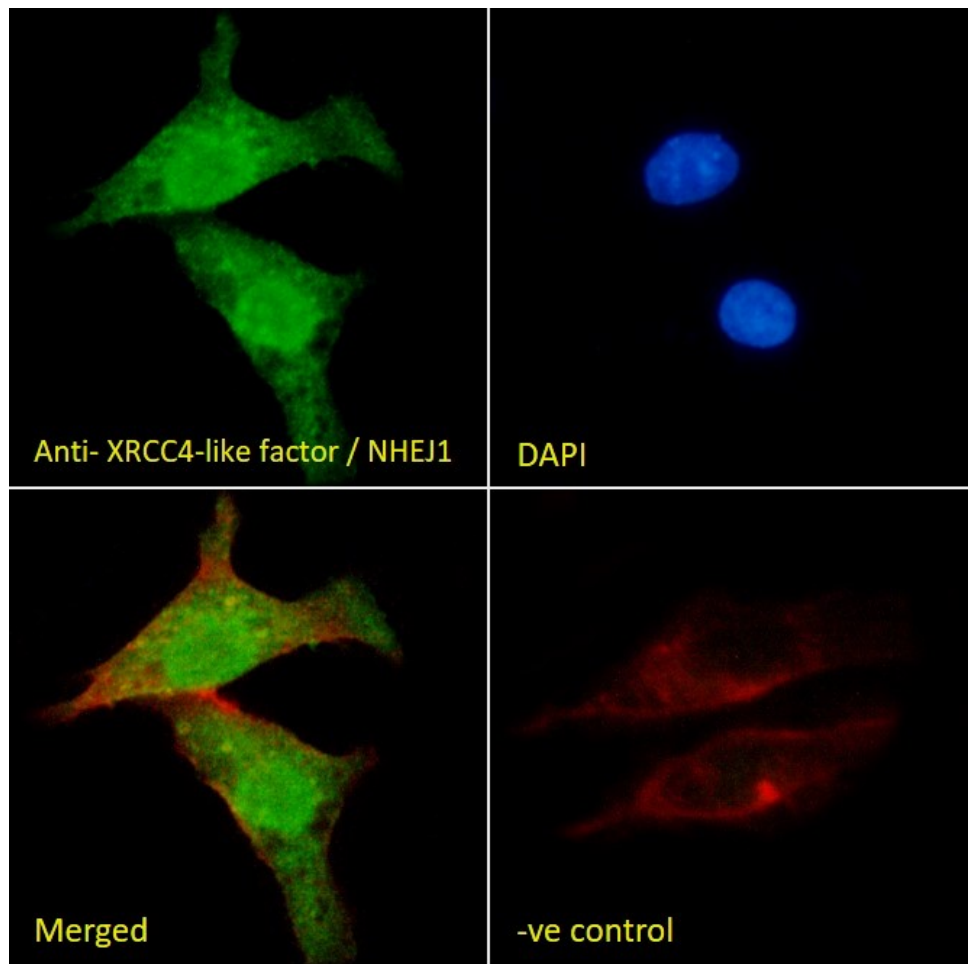
Image A: HeLa nuclear cell lysate at primary Ab concentration 0.01µg/ml, Images B, C, D: A431, Jurkat, K562 nuclear cell lysate at primary Ab concentration 0.03µg/ml, Image E: HepG2 nuclear cell lysate at primary Ab concentration 0.1µg/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



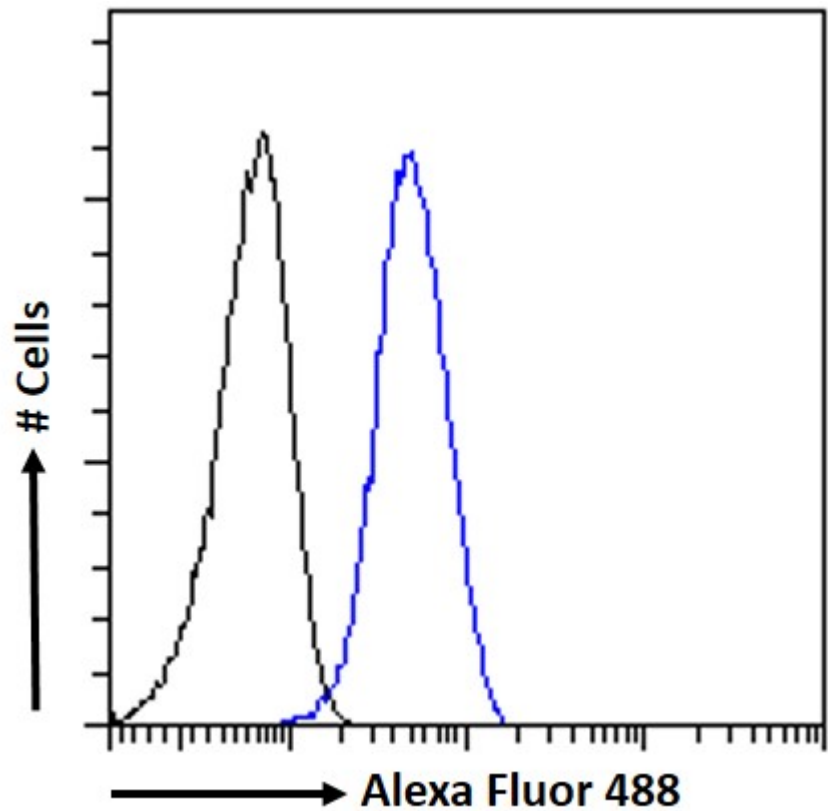
EB07440 optimised QC. Primary incubation 1 hour at room temperature.  
 Image A: Human Skeletal muscle lysate at primary Ab concentration 0.03ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



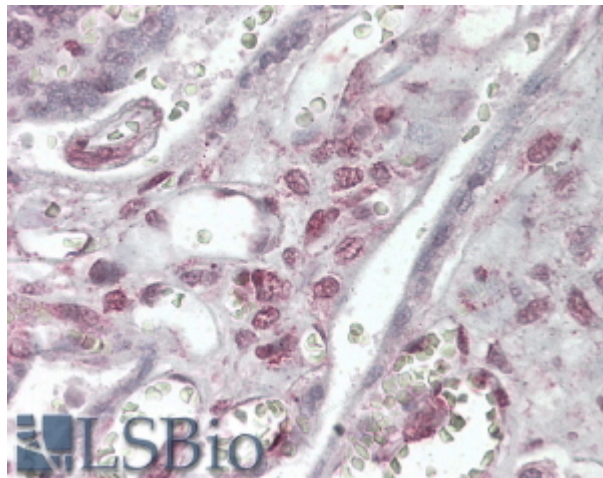
EB07440 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07440 Immunofluorescence analysis of paraformaldehyde fixed HepG2 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. 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).



EB07440 Flow cytometric analysis of paraformaldehyde fixed HepG2 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.



EB07440 (3.8µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.