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

EB05859 - Goat Anti-NEIL1 / NEH1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: NEIL1, NEH1, nei endonuclease VIII-like 1 (E. coli), NEI1, FLJ22402, endonuclease VIII, FPG1, hFPG1, nei endonuclease VIII-like 1

Official Symbol: NEIL1

Accession Number(s): NP_078884.2; NP_001243481.1; NP_001339449.1

Human GeneID(s): [79661](#)

Immunogen

Peptide with sequence C-DIPSLEPEGTSAS, from the C Terminus of the protein sequence according to NP_078884.2; NP_001243481.1; NP_001339449.1.

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. 60kDa band observed in lysates of cell lines Daudi and U937, and in nuclear cell lysates of HEK293 (calculated MW of 53.0kDa according to NP_001243481.1). This band was successfully blocked by incubation with the immunizing peptide. Recommended concentration: 2-3µg/ml. Primary incubation 1 hour at room temperature.

IHC: In paraffin embedded Human Placenta shows strong staining of cytoplasm in syncytiotrophoblasts. Recommended concentration: 5-10µg/ml.

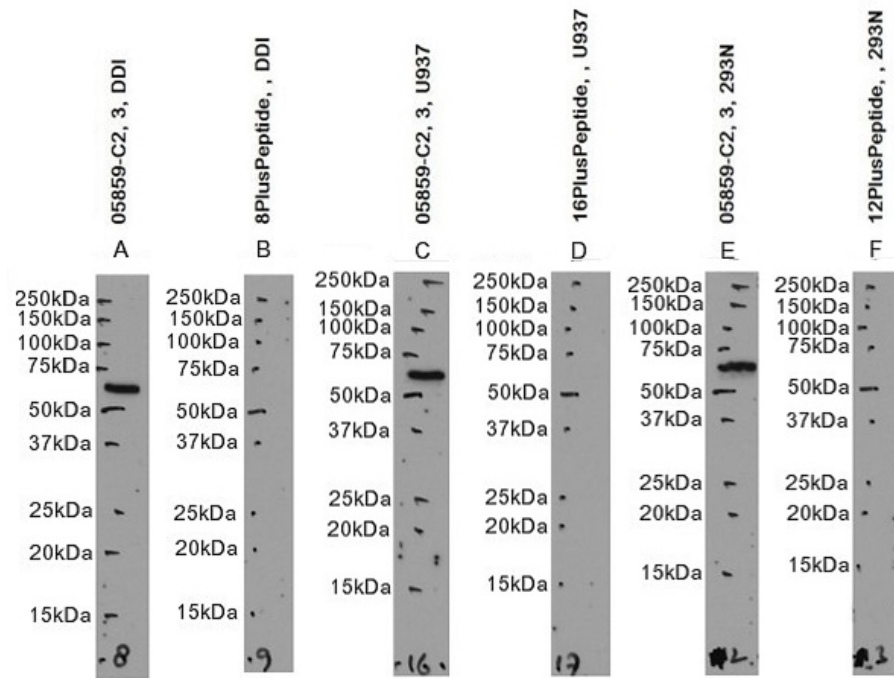
Immunofluorescence: Strong expression of the protein seen in the nuclei and cytoplasm of U937 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of U937 cells. Recommended concentration: 10ug/ml.

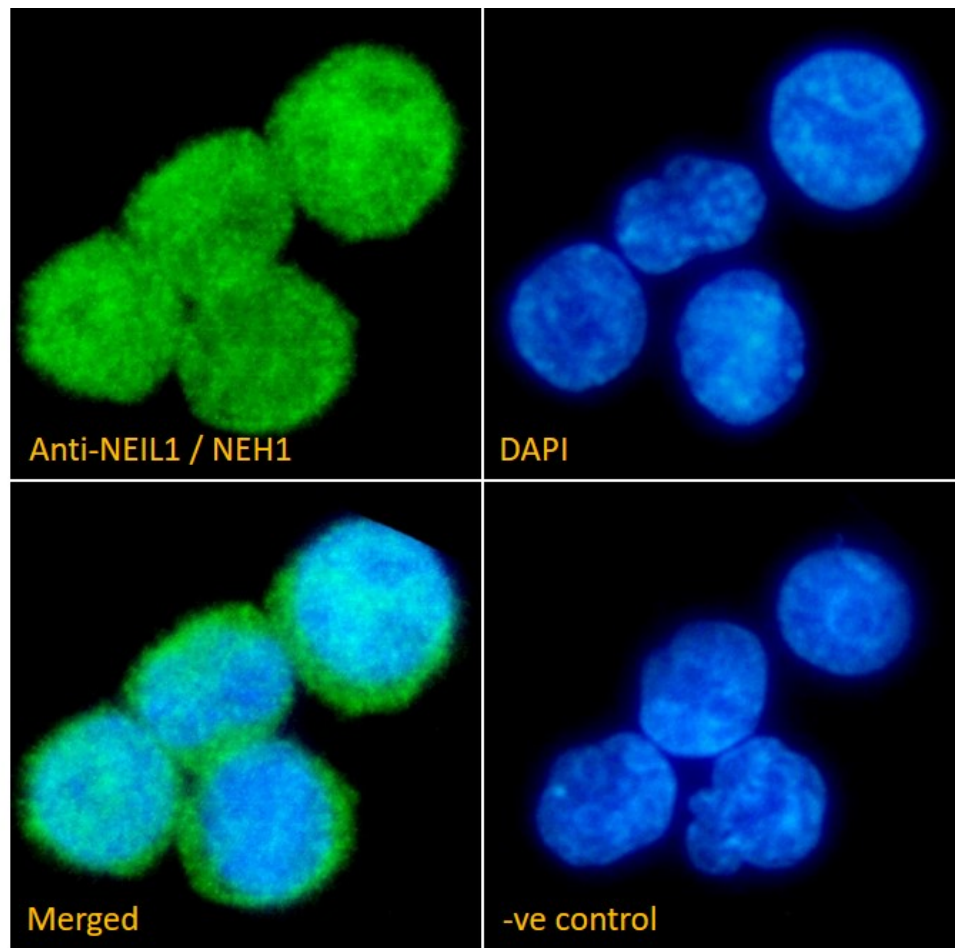
Species Reactivity

Tested: Human

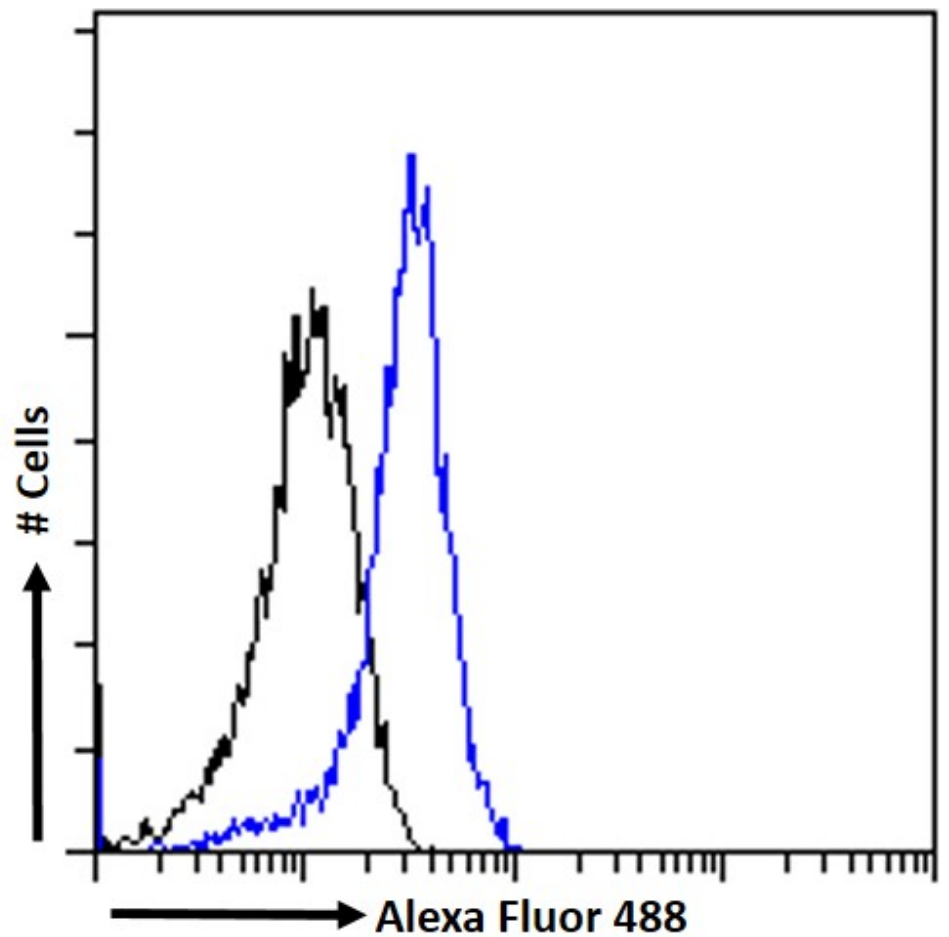
Expected from sequence similarity: Human



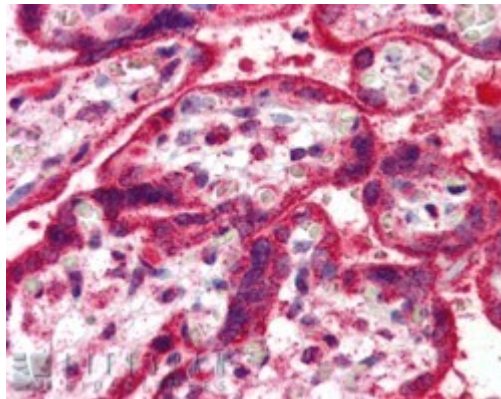
EB05859 optimised QC. Primary incubation 1 hour at room temperature.
 Images A+B: Daudi cell lysate + peptide, C+D: U937 cell lysate + peptide, E+F: HEK293 nuclear cell lysate + peptide, incubation at primary Ab concentration 3ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB05859 Immunofluorescence analysis of paraformaldehyde fixed U937 immobilized on Shi-fix™ plus cover-slips. Primary incubation 1hr (1:50 dilution) followed by Alexa Fluor® 488 secondary antibody (1:2000 dilution), showing cytoplasmic and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Anti-Goat IgG followed by Alexa Fluor® 488 secondary antibody.



EB05859 Flow cytometric analysis of paraformaldehyde fixed U937 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.



EB05859 (5µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.