

## Recombinant Human NEIL3 293 Cell Lysate

**Cat. No.** NEIL3-3880HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for nei endonuclease VIII-like 3 (E. coli) (NEIL3) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                                     |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Applications** ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NEIL3 nei endonuclease VIII-like 3 (E. coli) [ Homo sapiens ]                                                                                                                                                                              |
| <b>Official Symbol</b>     | NEIL3                                                                                                                                                                                                                                      |
| <b>Synonyms</b>            | NEIL3; nei endonuclease VIII-like 3 (E. coli); endonuclease 8-like 3; FLJ10858; FPG2; hFPG2; hNEI3; nei-like protein 3; DNA glycosylase FPG2; DNA glycosylase hFPG2; endonuclease VIII-like 3; DNA glycosylase/AP lyase Neil3; FGP2; NEI3; |
| <b>Gene ID</b>             | 55247                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_018248                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_060718                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 608934                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | Q8TAT5                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 4q34                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;                                                                                                                                              |
| <b>Function</b>            | NOT DNA N-glycosylase activity; DNA N-glycosylase activity; DNA-(apurinic or                                                                                                                                                               |

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apyrimidinic site) lyase activity; bubble DNA binding; damaged DNA binding; double-stranded DNA binding; lyase activity; metal ion binding; single-stranded DNA binding; zinc ion binding;

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