

Full-Length

NEIL3 (Human) Recombinant Protein (P02)

Catalog # H00055247-P02

Size 50 ug

Specification

Product Description	Human NEIL3 full-length ORF (BAA91860.1, 1 a.a. - 605 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVEGPGCTLNGEKIRARVLPGQAVTGVRGSALRSPQGRLRLAASTVVVSPQAAAALNNDSSQN VLSLFNGYVYSGVETLGKELFMYFGPKALRIHFGMKGFIMINPLEYKYKNGASPVLEVQLTKDLICF FDSSVELRNSMESQQRIRMMKELDVCSPFEFSLRAESEVKKQKGRMLGDVLMQNVLPGVGNII KNEALFDSGLHPAVKVCQLTDEQIHHLMKMIRDFSILFYRCRKAGLALSKHYKVYKRPNCGGQCHC RITVCRFGDNNRMTYFCPHCQKENPQHVDICKLPTRNTIISWTSSRVDHVMDSVARKSEEHWTCV VCTLINKPSSKACDACTSRPIDSVLKSEENSTVFSHLMKYPCNTFGKPHTEVKINRKTAFGTTTLV LTDFSNSSTLERKTKQNQILDEEFQNSPPASVCLNDIQHPSKKTNDITQLSSKVNISPTISSESKL FSPAHHKPKTAHYSSPELKSCNPGYSNSELQINMTDGPRTLNPDSPRCSKHNRLCILRVVRKDGE NKGRQFYACPLPREAQCGFFEWADLSFPFCNHGKRSTMKTVLKIGPNNGKNFFVCPLGKEKQC NFFQWAENGPGIIPGC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	92.95
Interspecies Antigen Sequence	Mouse (73); Rat (72)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NEIL3

Entrez GeneID [55247](#)

GeneBank Accession# [AK001720.1](#)

Protein Accession# [BAA91860.1](#)

Gene Name NEIL3

Gene Alias FGP2, FLJ10858, FPG2, NEI3, hFPG2, hNEI3

Gene Description nei endonuclease VIII-like 3 (E. coli)

Omim ID [608934](#)

Gene Ontology [Hyperlink](#)

Gene Summary NEIL3 belongs to a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226]).[supplied by OMIM]

Other Designations DNA glycosylase hFPG2|nei endonuclease VIII-like 3

Pathway

- [Base excision repair](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Breast cancer](#)
- [Colon cancer](#)

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Werner syndrome](#)