

Anti-NEI3 / NEIL3 Antibody (aa491-540)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18360**Specification****Anti-NEI3 / NEIL3 Antibody (aa491-540) - Product Information**

Application	WB, IHC-P, E
Primary Accession	Q8TAT5
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	67769
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

Anti-NEI3 / NEIL3 Antibody (aa491-540) - Additional Information**Gene ID** 55247**Alias Symbol** NEIL3**Other Names**

NEIL3, DNA glycosylase/AP lyase Neil3, FGP2, DNA glycosylase FPG2, DNA glycosylase hFPG2, FPG2, HFPG2, Endonuclease 8-like 3, Endonuclease VIII-like 3, HNEI3, Nei-like protein 3, NEI3

Target/Specificity

NEIL3 Antibody detects endogenous levels of total NEIL3 protein.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-NEI3 / NEIL3 Antibody (aa491-540) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-NEI3 / NEIL3 Antibody (aa491-540) - Protein Information**Name** NEIL3**Function**

DNA glycosylase which prefers single-stranded DNA (ssDNA), or partially ssDNA structures such as bubble and fork structures, to double-stranded DNA (dsDNA) (PubMed:12433996, PubMed:19170771, PubMed:22569481, PubMed:23755964). Mediates interstrand cross-link repair in response to replication stress: acts by mediating DNA glycosylase

activity, cleaving one of the two N-glycosyl bonds comprising the interstrand cross-link, which avoids the formation of a double-strand break but generates an abasic site that is bypassed by translesion synthesis polymerases (By similarity). In vitro, displays strong glycosylase activity towards the hydantoin lesions spiroiminodihydantoin (Sp) and guanidinohydantoin (Gh) in both ssDNA and dsDNA; also recognizes FapyA, FapyG, 5-OHU, 5-OHC, 5-OHMH, Tg and 8-oxoA lesions in ssDNA (PubMed:12433996, PubMed:19170771, PubMed:22569481, PubMed:23755964). No activity on 8-oxoG detected (PubMed:12433996, PubMed:19170771, PubMed:22569481, PubMed:23755964). Also shows weak DNA-(apurinic or apyrimidinic site) lyase activity (PubMed:12433996, PubMed:19170771, PubMed:22569481, PubMed:23755964). In vivo, appears to be the primary enzyme involved in removing Sp and Gh from ssDNA in neonatal tissues (PubMed:12433996, PubMed:19170771, PubMed:22569481, PubMed:23755964).

Cellular Location

Nucleus. Chromosome {ECO:0000250|UniProtKB:A0A1L8HU22}. Note=Recruited to replication stress sites via interaction with ubiquitinated CMG helicase {ECO:0000250|UniProtKB:A0A1L8HU22}

Tissue Location

Expressed in keratinocytes and embryonic fibroblasts (at protein level). Also detected in thymus, testis and fetal lung primary fibroblasts.

Anti-NEI3 / NEIL3 Antibody (aa491-540) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NEI3 / NEIL3 Antibody (aa491-540) - Images