

Rabbit Anti-NEI3/AF350 Conjugated antibody

SL19191R-AF350

Product Name	Anti-NEI3/AF350
Chinese Name	AF350 标记的 DNA 糖基化酶 FPG2 抗体
Alias	123; AI449477; BC034753; C85903; DNA glycosylase FPG2; DNA glycosylase hFPG2; DNA glycosylase/AP lyase Neil3; EC 3.2.2.-; EC 4.2.99.18; Endonuclease 8-like 3; Endonuclease VIII-like 3; FGP2; FLJ10858; FPG2; hFPG2; hNEI3; MGC27861; MGC36916; Nei endonuclease VIII-like 3 (E. coli); nei endonuclease VIII-like 3; Nei like 3 (E. coli); Nei-like protein 3; NEIL3; NEIL3_HUMAN; OTTHUMP00000218810; RGD1310562.
Research Area	Cell biology Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Pig,Horse,Rabbit) ICC/IF=1:50-200,IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	68kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NEI3
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background:

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, Mar 2008]

Function:

Reports about DNA glycosylase activity are contradictory. A number of references report finding no DNA glycosylase activity and the protein lacks a proline residue at the N-terminus which functions as an active site residue in other members of the FPG family. However, the mouse ortholog has been shown to have both DNA glycosylase and AP lyase activities and PubMed:19170771 demonstrates AP lyase activity. Prefers single-stranded DNA or partially single-stranded DNA structures such as bubble and fork structures to double-stranded DNA in vitro. Displays a broad recognition spectrum, preferring FapyA and FapyG followed by 5-OHU, 5-PHC and 5-OHMH and then Tg and 8-oxoA. No activity on 8-oxoG detected.

Subcellular Location:

Nucleus.

Tissue Specificity:

Detected in thymus and testis. Expressed at higher levels in tumor tissue than in the corresponding normal tissues except for pancreas and testis where expression is higher in normal than tumor tissue.

Similarity:

Belongs to the FPG family.
Contains 1 FPG-type zinc finger.
Contains 1 RanBP2-type zinc finger.

Database links:

[Entrez Gene: 55247](#) Human

[Entrez Gene: 234258](#) Mouse

[Entrez Gene: 290729](#) Rat

[Omim: 608934](#) Human

[SwissProt: Q8TAT5](#) Human

[SwissProt: Q8K203](#) Mouse



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[SwissProt: D3ZKJ8](#) Rat

[Unigene: 405467](#) Human

[Unigene: 281749](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.