

Product Name: NEIL2 Rabbit Polyclonal Antibody
Catalog #: APRab14546



Summary

Production Name	NEIL2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NEIL2
Alternative Names	
Gene ID	252969.0
SwissProt ID	Q969S2.Synthesized peptide derived from part region of human protein

Application

Dilution Ratio	WB 1:500-2000 ELISA 1:5000-20000
Molecular Weight	36kD

Background

NEIL2 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

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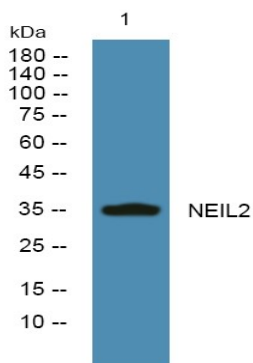


break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226])[supplied by OMIM, Mar 2008],catalytic activity:Removes damaged bases from DNA, leaving an abasic site.,catalytic activity:The C-O-P bond 3' to the apurinic or apyrimidinic site in DNA is broken by a beta-elimination reaction, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate.,domain:The zinc-finger domain is important for DNA binding.,enzyme regulation:Acetylation of Lys-50 leads to loss of DNA nicking activity. Acetylation of Lys-154 has no effect.,function:Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Has DNA glycosylase activity towards 5-hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double stranded DNA (DNA bubbles). Has low or no DNA glycosylase activity towards thymine glycol, 2-hydroxyadenine, hypoxanthine and 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates.,similarity:Belongs to the FPG family.,similarity:Contains 1 FPG-type zinc finger.,subunit:Binds EP300.,tissue specificity:Detected in testis, skeletal muscle, heart, brain, placenta, lung, pancreas, kidney and liver.,

Research Area

Base excision repair;

Image Data



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, 4°over night

Note

For research use only.