

NEIL2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16044a

Specification

NEIL2 Antibody (N-term) - Product Information

Application WB,E
Primary Accession 096952

Other Accession <u>NP_001129220.1</u>, <u>NP_001129218.1</u>,

Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG

Calculated MW 36826 Antigen Region 67-96

NEIL2 Antibody (N-term) - Additional Information

Gene ID 252969

Other Names

Endonuclease 8-like 2, 322-, DNA glycosylase/AP lyase Neil2, DNA-(apurinic or apyrimidinic site) lyase Neil2, Endonuclease VIII-like 2, Nei homolog 2, NEH2, Nei-like protein 2, NEIL2

Target/Specificity

This NEIL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-96 amino acids from the N-terminal region of human NEIL2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NEIL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NEIL2 Antibody (N-term) - Protein Information

Name NEIL2





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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.

Cellular Location Nucleus.

Tissue Location

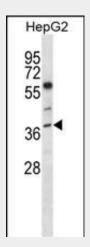
Detected in testis, skeletal muscle, heart, brain, placenta, lung, pancreas, kidney and liver

NEIL2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

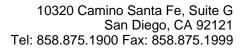
NEIL2 Antibody (N-term) - Images



NEIL2 Antibody (N-term) (Cat. #AP16044a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the NEIL2 antibody detected the NEIL2 protein (arrow).

NEIL2 Antibody (N-term) - 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 break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226])





NEIL2 Antibody (N-term) - References

Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010) Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press: Grin, I.R., et al. Biochem. Biophys. Res. Commun. 394(1):100-105(2010) Kinslow, C.J., et al. Genes Chromosomes Cancer 47(11):923-932(2008) Zhai, X., et al. Clin. Cancer Res. 14(13):4345-4352(2008)