

NEIL1 Polyclonal Antibody

Catalog # AP71213

Specification

NEIL1 Polyclonal Antibody - Product Information

Application WB
Primary Accession Q96FI4
Reactivity Human
Host Rabbit
Clonality Polyclonal

NEIL1 Polyclonal Antibody - Additional Information

Gene ID 79661

Other Names

NEIL1; Endonuclease 8-like 1; DNA glycosylase/AP lyase Neil1; DNA-(apurinic or apyrimidinic site) lyase Neil1; Endonuclease VIII-like 1; FPG1; Nei homolog 1; NEH1; Nei-like protein 1

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

NEIL1 Polyclonal Antibody - Protein Information

Name NEIL1

Function

Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as a DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 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. Has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches. Specifically binds 5- hydroxymethylcytosine (5hmC), suggesting that it acts as a specific reader of 5hmC.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus. Chromosome. Note=During mitosis, associates with centrosomes and condensed chromatin

Tissue Location



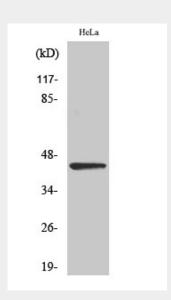
Ubiquitous..

NEIL1 Polyclonal Antibody - Protocols

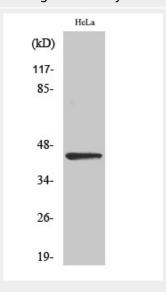
Provided below are standard protocols that you may find useful for product applications.

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

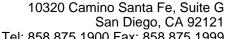
NEIL1 Polyclonal Antibody - Images



Western Blot analysis of various cells using NEIL1 Polyclonal Antibody



Western Blot analysis of various cells using NEIL1 Polyclonal Antibody





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NEIL1 Polyclonal Antibody - Background

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