

Anti-NEIL1 Antibody
Rabbit polyclonal antibody to NEIL1
Catalog # AP60955**Specification**

Anti-NEIL1 Antibody - Product Information

Application	WB
Primary Accession	Q96FI4
Other Accession	Q8K4Q6
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43684

Anti-NEIL1 Antibody - Additional Information**Gene ID** 79661**Other Names**

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NEIL1. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-NEIL1 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

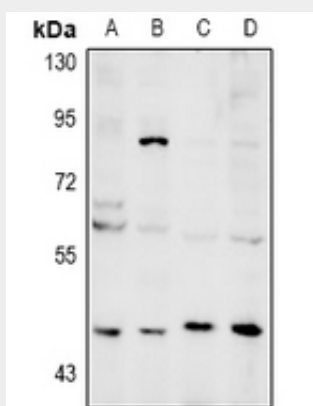
Tissue Location

Ubiquitous..

Anti-NEIL1 Antibody - 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-NEIL1 Antibody - Images

Western blot analysis of NEIL1 expression in PC12 (A), AML12 (B), MCF7 (C), A549 (D) whole cell lysates.

Anti-NEIL1 Antibody - Background

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