

Anti-NEIL1 Antibody

Catalog # AP60955

Product Information

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

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 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

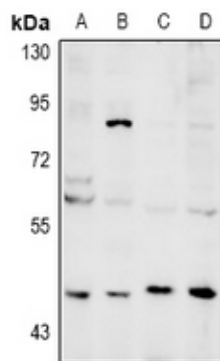
Name	NEIL1
Function	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as a DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal 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..

Images



Western blot analysis of NEIL1 expression in PC12 (A), AML12 (B), MCF7 (C), A549 (D) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 47 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.