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Datasheet for ABIN7151628

anti-NEIL1 antibody (AA 2-390) (Biotin)

Overview

Quantity:	100 µg
Target:	NEIL1
Binding Specificity:	AA 2-390
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEIL1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Endonuclease 8-like 1 protein (2-390AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NEIL1
Alternative Name:	NEIL1 (NEIL1 Products)
Background:	Background: Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and removes damaged bases. Has a

Target Details

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.

Aliases: DNA (apurinic or apyrimidinic site) lyase Neil1 antibody, DNA glycosylase/AP lyase Neil 1 antibody, DNA glycosylase/AP lyase Neil 1 antibody, DNA-(apurinic or apyrimidinic site) lyase Neil1 antibody, Endonuclease 8 like 1 antibody, Endonuclease 8-like 1 antibody, Endonuclease VIII antibody, Endonuclease VIII like 1 antibody, Endonuclease VIII-like 1 antibody, FLJ22402 antibody, FPG1 antibody, hFPG1 antibody, NEH 1 antibody, NEH1 antibody, NEI 1 antibody, Nei endonuclease VIII like 1 (E. coli) antibody, Nei endonuclease VIII like 1 antibody, Nei homolog 1 antibody, Nei like 1 antibody, Nei like protein 1 antibody, Nei-like protein 1 antibody, NEI1 antibody, NEIL 1 antibody, Neil1 antibody, NEIL1_HUMAN antibody

UniProt: [Q96FI4](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.