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Datasheet for ABIN7113799 **anti-NEIL1 antibody**

Overview

Quantity:	100 µg
Target:	NEIL1
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEIL1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	nei endonuclease VIII-like 1(E. coli)
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	NEIL1
Alternative Name:	NEIL1 (NEIL1 Products)
Background:	Synonyms:DNA glycosylase/AP lyase Neil1, Endonuclease 8 like 1, Endonuclease VIII like 1, FPG1, hFPG1, NEH1, Nei homolog 1, Nei like protein 1, NEI1, NEIL1 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 preference for oxidized pyrimidines, such

Target Details

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.

Molecular Weight: 44kd

Gene ID: 79661

UniProt: [Q96FI4](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: WB: 1:500-1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

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

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months