

**Product Name: NTH1 (12T15) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe14928**

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## Summary

<b>Production Name</b>	NTH1 (12T15) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	NTHL1 {ECO:0000255 HAMAP-Rule:MF_03183}
<b>Alternative Names</b>	hNTH1; NTH1; Nthl1; OCTS3;
<b>Gene ID</b>	4913.0
<b>SwissProt ID</b>	P78549.Recombinant protein of human NTH1

## Application

<b>Dilution Ratio</b>	WB: 1:1000
<b>Molecular Weight</b>	34kDa

## Background

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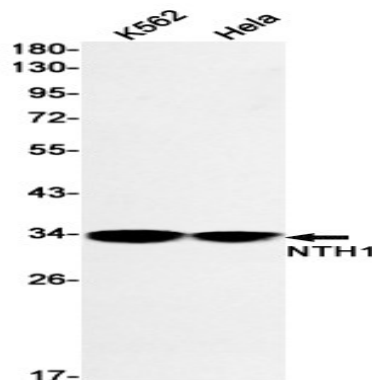
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Has both an apurinic and/or apyrimidinic endonuclease activity and a DNA N-glycosylase activity. Incises damaged DNA at cytosines, thymines and guanines. Acts on a damaged strand, 5' from the damaged site. Required for the repair of both oxidative DNA damage and spontaneous mutagenic lesions. Bifunctional DNA N-glycosylase with associated apurinic/apyrimidinic (AP) lyase function that catalyzes the first step in base excision repair (BER), the primary repair pathway for the repair of oxidative DNA damage (PubMed: [9927729](http://www.uniprot.org/citations/9927729)). The DNA N-glycosylase activity releases the damaged DNA base from DNA by cleaving the N- glycosidic bond, leaving an AP site. The AP-lyase activity cleaves the phosphodiester bond 3' to the AP site by a beta-elimination. Primarily recognizes and repairs oxidative base damage of pyrimidines. Has also 8-oxo-7,8-dihydroguanine (8-oxoG) DNA glycosylase activity. Acts preferentially on DNA damage opposite guanine residues in DNA. Is able to process lesions in nucleosomes without requiring or inducing nucleosome disruption.

## Research Area

## Image Data



Western blot detection of NTH1 in K562, HeLa cell lysates using NTH1 antibody (1:1000 diluted).

## Note

For research use only.