

# NTH1 Rabbit mAb

Catalog # AP75824

## Product Information

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Application	WB, ICC
Primary Accession	<a href="#">P78549</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	33570

## Additional Information

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Gene ID	4913
Other Names	NTHL1
Dilution	WB~~1/500-1/1000 ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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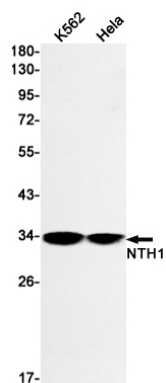
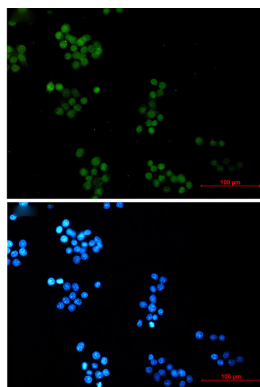
Name	NTHL1 {ECO:0000255 HAMAP-Rule:MF_03183}
Synonyms	NTH1, OCTS3
Function	Bifunctional DNA N-glycosylase with associated apurinic/apyrimidinic (AP) lyase function that catalyzes the first step in base excision repair (BER), the primary repair pathway for the repair of oxidative DNA damage (PubMed: <a href="#">29610152</a> , PubMed: <a href="#">9927729</a> ). 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. Also has 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.
Cellular Location	Nucleus {ECO:0000255 HAMAP-Rule:MF_03183, ECO:0000269 PubMed:10882850, ECO:0000269 PubMed:12531031, ECO:0000269 PubMed:9611236}. Mitochondrion {ECO:0000255 HAMAP-Rule:MF_03183, ECO:0000269 PubMed:9611236}

## Tissue Location

Widely expressed with highest levels in heart and lowest levels in lung and liver.

## Images

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