

NTH1 Rabbit mAb

Catalog # AP75824

Product Information

Application	WB, ICC
Primary Accession	P78549
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	33570

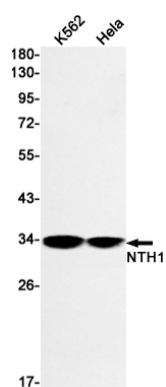
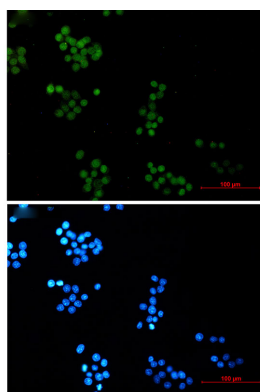
Additional Information

Gene ID	4913
Other Names	NTHL1
Dilution	WB~~1/500-1/1000 ICC~~N/A
Format	Liquid

Protein Information

Name	NTHL1 {ECO:0000255 HAMAP-Rule:MF_03183}
Synonyms	NTH1, OCTS3
Function	<p>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:29610152, PubMed: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. 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.</p>
Cellular Location	<p>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}</p>
Tissue Location	Widely expressed with highest levels in heart and lowest levels in lung and liver.

Images



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