

NTHL1 Antibody (Center R103) Blocking peptide
Synthetic peptide
Catalog # BP11554c**Specification**

NTHL1 Antibody (Center R103) Blocking peptide - Product InformationPrimary Accession [P78549](#)**NTHL1 Antibody (Center R103) Blocking peptide - Additional Information****Gene ID** 4913**Other Names**

Endonuclease III-like protein 1 {ECO:0000255|HAMAP-Rule:MF_03183}, hNTH1, 322-
{ECO:0000255|HAMAP-Rule:MF_03183}, 429918 {ECO:0000255|HAMAP-Rule:MF_03183},
Bifunctional DNA N-glycosylase/DNA-(apurinic or apyrimidinic site) lyase
{ECO:0000255|HAMAP-Rule:MF_03183}, DNA glycosylase/AP lyase
{ECO:0000255|HAMAP-Rule:MF_03183}, NTHL1 {ECO:0000255|HAMAP-Rule:MF_03183}, NTH1,
OCTS3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NTHL1 Antibody (Center R103) Blocking peptide - Protein Information**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: [9927729](http://www.uniprot.org/citations/9927729) target="_blank">9927729, PubMed: [29610152](http://www.uniprot.org/citations/29610152) target="_blank">29610152). 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.

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.

NTHL1 Antibody (Center R103) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NTHL1 Antibody (Center R103) Blocking peptide - Images**NTHL1 Antibody (Center R103) Blocking peptide - Background**

The protein encoded by this gene is a DNA N-glycosylase of the endonuclease III family. Like a similar protein in E. coli, the encoded protein has DNA glycosylase activity on DNA substrates containing oxidized pyrimidine residues and has purinic/apurimidine lyase activity.

NTHL1 Antibody (Center R103) Blocking peptide - References

Wang, W., et al. Nucleic Acids Res. (2010) In press :Arora, M., et al. Leukemia 24(8):1470-1475(2010)Thyagarajan, B., et al. Biol. Blood Marrow Transplant. 16(8):1084-1089(2010)Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010)Goto, M., et al. Carcinogenesis 30(8):1345-1352(2009)