

Anti-NTH1 Rabbit Monoclonal Antibody
Catalog # ABO16481**Specification****Anti-NTH1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	P78549
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-NTH1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

Anti-NTH1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 4913

Other Names

Endonuclease III-like protein 1 {ECO:0000255|HAMAP-Rule:MF_03183}, hNTH1, 3.2.2.-
{ECO:0000255|HAMAP-Rule:MF_03183, ECO:0000269|PubMed:9927729}, 4.2.99.18
{ECO:0000255|HAMAP-Rule:MF_03183, ECO:0000269|PubMed:9927729}, 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

Calculated MW

34 kDa KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human NTH1

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-NTH1 Rabbit Monoclonal Antibody - 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: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.

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

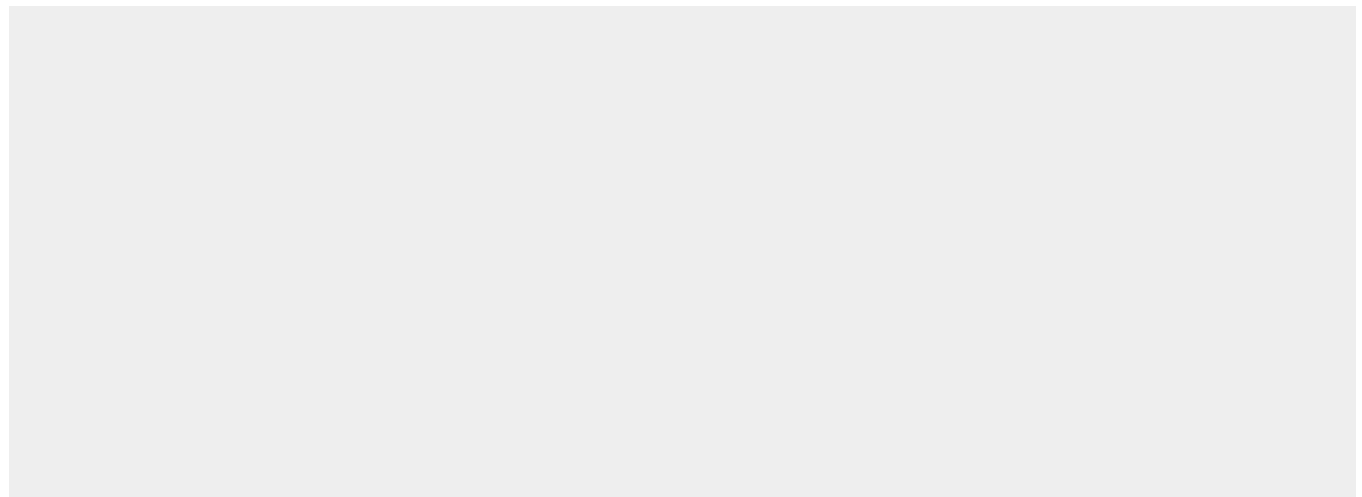
Widely expressed with highest levels in heart and lowest levels in lung and liver.

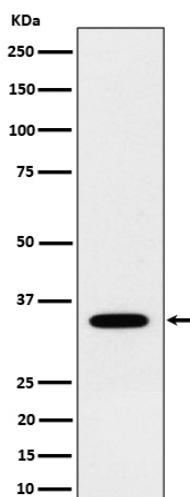
Anti-NTH1 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NTH1 Rabbit Monoclonal Antibody - Images





Western blot analysis of NTH1 expression in 293 cell lysate.