

NTHL1 recombinant antibody

NTHL1 Recombinant Monoclonal Antibody

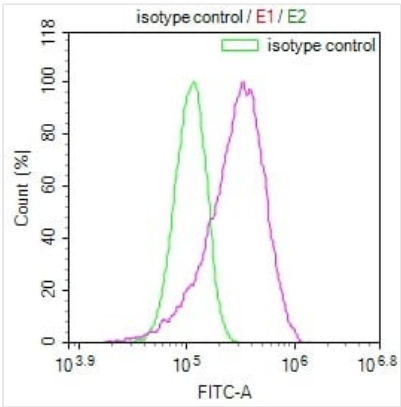
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA279004	HEK293F Cell	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

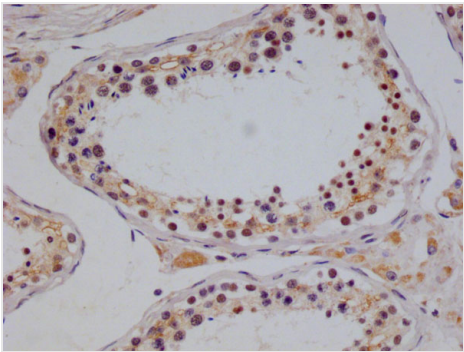
NTHL1; Monoclonal Recombinant Antibody; NTHL1 Recombinant Monoclonal Antibody; Endonuclease III-like protein 1 (hNTH1)(EC 3.2.2.)(EC 4.2.99.18)(Bifunctional DNA N-glycosylase/DNA-(apurinic or apyrimidinic site) lyase)(DNA glycosylase/AP lyase); NTH1 OCTS3; NTHL1 recombinant antibody

PRODUCT SPECIFICATIONS

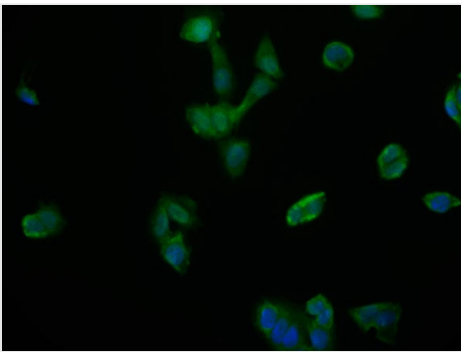
Host	HEK293F Cell
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	22H10
Purity/Purification	Affinity purified
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for NTHL1 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human NTHL1
Conjugation	Non-conjugated
Research Area	Epigenetics and Nuclear Signaling
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.



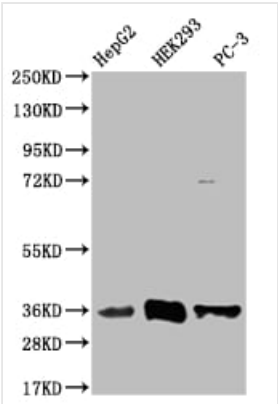
FCM/FACS (Flow Cytometry)
Overlay Peak curve showing HepG2 cells stained with AAA279004 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*106cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



IHC (Immunohistochemistry)
IHC image of AAA279004 diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.



IF (Immunofluorescence)
Immunofluorescence staining of PC-3 cell with AAA279004 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 604-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB (Western Blot)
Western BlotPositive WB detected in: HepG2 whole cell lysate, HEK293 whole cell lysate, PC-3 whole cell lysateAll lanes: NTHL1 antibody at 1:1000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 35, 34, 33 kDaObserved band size: 35 kDa

ADDITIONAL INFORMATION

Related Product Information for NTHL1 recombinant antibody

Bifunctional DNA N-glycosylase with associated apurinic/aprimidinic (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). 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. {ECO:0000255|HAMAP-Rule:MF_03183, ECO:0000269|PubMed:10882850, ECO:0000269|PubMed:11328882, ECO:0000269|PubMed:11380260, ECO:0000269|PubMed:11695910, ECO:0000269|PubMed:12140329, ECO:0000269|PubMed:12144783, ECO:0000269|PubMed:12519758, ECO:0000269|PubMed:14734554, ECO:0000269|PubMed:15533839, ECO:0000269|PubMed:17923696, ECO:0000269|PubMed:20005182, ECO:0000269|PubMed:20110254, ECO:0000269|PubMed:21930793, ECO:0000269|PubMed:8990169, ECO:0000269|PubMed:9045706, ECO:0000269|PubMed:9705289, ECO:0000269|PubMed:9890904, ECO:0000269|PubMed:9927729}.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505471
NCBI GeneID	4913
NCBI Accession #	NP_002519.1
NCBI GenBank Nucleotide #	NM_002528.5
UniProt Accession #	P78549; Q1MVR1; Q99566; Q99794; Q9BPX2
Molecular Weight	32,839 Da
NCBI Official Full Name	endonuclease III-like protein 1
NCBI Official Synonym Full Names	nth endonuclease III-like 1 (E. coli)
NCBI Official Symbol	NTHL1
NCBI Official Synonym Symbols	NTH1; OCTS3; hNTH1
NCBI Protein Information	endonuclease III-like protein 1; DNA glycosylase/AP lyase; NTHL1; bifunctional DNA N-glycosylase/DNA-(apurinic or apyrimidinic site) lyase
UniProt Protein Name	Endonuclease III-like protein 1
UniProt Gene Name	NTHL1
UniProt Synonym Gene Names	hNTH1
UniProt Entry Name	NTH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/nthl1-recombinant-antibody-clone-22h10-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/279004>