Best Tools for immunology Research

NTHL1 Polyclonal Antibody

Catalog No :	YN0699
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	NTHL1
Fields :	>>Base excision repair
Gene Name :	NTHL1 NTH1 OCTS3
Protein Name :	Endonuclease III-like protein 1 (EC 4.2.99.18)
Human Gene Id :	4913
Human Swiss Prot No :	P78549
Mouse Swiss Prot No :	O35980
Immunogen :	Synthesized peptide derived from part region of human protein
Specificity :	NTHL1 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 34kD

Cell Pathway : Base excision repair;

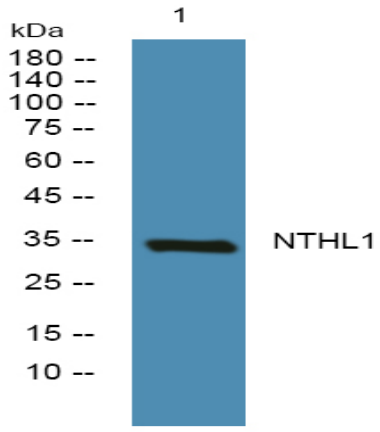
Background : The protein encoded by this gene is a DNA N-glycosylase of the endonuclease III family. Like a similar protein in E. coli, the encoded protein has DNA glycosylase activity on DNA substrates containing oxidized pyrimidine residues and has apurinic/apyrimidinic lyase activity. [provided by RefSeq, Oct 2008],

Function : catalytic activity:The C-O-P bond 3' to the apurinic or apyrimidinic site in DNA is broken by a beta-elimination reaction, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate.,caution:It is uncertain whether Met-1, Met-9 or Met-16 is the initiator.,cofactor:Binds 1 4Fe-4S cluster. The cluster is not important for the catalytic activity, but which is probably involved in the proper positioning of the enzyme along the DNA strand.,developmental stage:Expression levels are regulated during the cell cycle with increased levels during early and mid S-phase.,function:Has both an apurinic and/or apyrimidinic endonuclease activity and a DNA N-glycosylase activity. Incises damaged DNA at cytosines, thymines and guanines. Acts on a damaged strand, 5' from the damaged site. Required for the repair of both oxidative DNA damage and spontaneous mutagenic lesions.,similari

Subcellular Location : Nucleus . Mitochondrion .

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

Products Images



Western blot analysis of lysates from SH-SY5Y cells, primary antibody was diluted at 1:1000, 4°over night