

For Research Use Only

MTH1 Polyclonal antibody

Catalog Number: 16705-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 16705-1-AP	GenBank Accession Number: BC014618	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4521	Recommended Dilutions: WB 1:200-1:1000 IHC 1:2000-1:8000 IF 1:10-1:100
Source: Rabbit	Full Name: nudix (nucleoside diphosphate linked moiety X)-type motif 1	
Isotype: IgG	Calculated MW: 179aa, 20 kDa; 197aa, 23 kDa	
Immunogen Catalog Number: AG10103	Observed MW: 18-24 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HepG2 cells, HEK-293 cells, PC-3 cells IHC : human lung cancer tissue, mouse brain tissue IF : PC-3 cells,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MTH1, also known as NUDT1 or 8-Oxo-dGTPase, is an important repair enzyme that prevents oxidative stress-induced DNA damage through hydrolyzing mutagenic 8-oxo-dGTP into 8-oxo-dGMP. MTH1 is expressed in postmitotic neurons as well as in proliferative tissues, and it is localized both in the mitochondria and nucleus. MTH1 might be a useful marker of oxidative stress and its level increased upon oxidative stress. Increased expression of MTH1 were also found in various cancer tissues and neurodegenerative diseases.

Notable Publications

Author	Pubmed ID	Journal	Application
Ya Gao	29221173	Oncotarget	WB
Xiang Wang	35395477	Colloids Surf B Biointerfaces	WB
Zi-Yi Yang	38042236	Photodiagnosis Photodyn Ther	WB

Storage

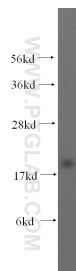
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

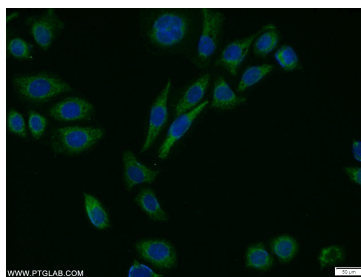
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

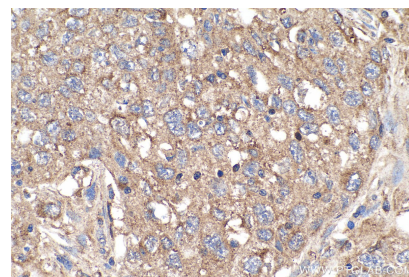
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 16705-1-AP (MTH1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of PC-3 cells using 16705-1-AP (MTH1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16705-1-AP (MTH1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).