For Research Use Only

MTH1 Polyclonal antibody

Catalog Number: 16705-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: GenBank Accession Number: 16705-1-AP BC014618

Size: GeneID (NCBI): 4521

Source: UNIPROT ID: Rabbit P36639

Isotype: Full Name:

Full Name: nudix (nucleoside diphosphate linked

Immunogen Catalog Number: moiety X)-type motif 1

AG10103 Calculated MW:

179aa,20 kDa; 197aa,23 kDa

Observed MW: 18-24 kDa

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA Cited Applications:

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 Positive Controls:

WB: HepG2 cells, HEK-293 cells, PC-3 cells

IHC: human lung cancer tissue, mouse brain tissue

Purification Method:

WB 1:200-1:1000 IHC 1:2000-1:8000

IF/ICC 1:10-1:100

Antigen affinity purification

Recommended Dilutions:

IF/ICC: PC-3 cells,

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
Wenji Xu	39075342	BMC Gastroenterol	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

For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

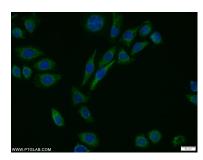
W: ptgcn.cor

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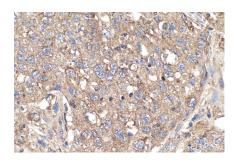
Selected Validation Data



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 Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded 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).