For Research Use Only

MTH1 Monoclonal antibody

Catalog Number: 67443-1-lg 1 Publications



Basic Information

Catalog Number: GenBank Accession Number: 67443-1-lg BC014618

Protein A purification GeneID (NCBI): Size: CloneNo.:

Full Name:

150ul, Concentration: 2000 ug/ml by 4521 2D7G4 Nanodrop and 1000 ug/ml by Bradford_{UNIPROT ID:} Recommended Dilutions: method using BSA as the standard; P36639 WB 1:2000-1:10000 Source: IHC 1:2000-1:8000

Mouse nudix (nucleoside diphosphate linked

Isotype: moiety X)-type motif 1

lgG1 Calculated MW:

179aa,20 kDa; 197aa,23 kDa Immunogen Catalog Number:

AG9802 Observed MW:

19 kDa

Applications

Tested Applications:

WB, IHC, ELISA **Cited Applications:**

Species Specificity:

human, mouse Cited Species:

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: HeLa cells, HEK-293 cells, HepG2 cells, Jurkat

Purification Method:

cells, K-562 cells

IHC: human renal cell carcinoma tissue, mouse testis tissue, human colon cancer tissue, human lung cancer

tissue

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 Nicholas C K Valerie 39643609 Nat Commun WB

Storage

Store at -20°C. Stable for one year after shipment.

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

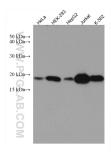
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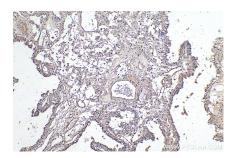
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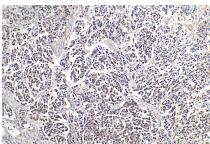
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67443-1-1g (MTH1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human renal cell carcinoma tissue slide using 67443-1-Ig (MTH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 67443-1-Ig (MTH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 67443-1-Ig (MTH1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).