

MTH1 Monoclonal antibody

Catalog Number: 67443-1-Ig

Basic Information

Catalog Number: 67443-1-Ig	GenBank Accession Number: BC014618	Purification Method: Protein A purification
Size: 150ul , Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4521	CloneNo.: 2D7G4
Source: Mouse	Full Name: nudix (nucleoside diphosphate linked moiety X)-type motif 1	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG1	Calculated MW: 179aa, 20 kDa; 197aa, 23 kDa	
Immunogen Catalog Number: AG9802	Observed MW: 19 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells
Species Specificity: Human	

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.

Storage

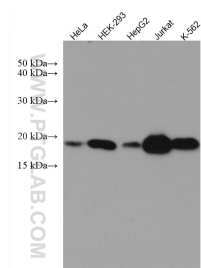
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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)
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W: ptglab.com

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Selected Validation Data



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