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NUDT5 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant NUDT5.
Catalog # AT3133a

Product Information

Application	WB, E
Primary Accession	Q9UKK9
Other Accession	NM_014142
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2A3
Calculated MW	24328

Additional Information

Gene ID	11164
Other Names	ADP-sugar pyrophosphatase, 8-oxo-dGDP phosphatase, Nucleoside diphosphate-linked moiety X motif 5, Nudix motif 5, YSA1H, NUDT5
Target/Specificity	NUDT5 (NP_054861, 120 a.a. ~ 219 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NUDT5 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

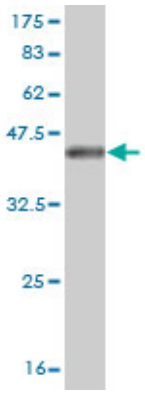
Nudix hydrolases, such as NUDT5, eliminate toxic nucleotide derivatives from the cell and regulate the levels of important signaling nucleotides and their metabolites (McLennan, 1999 [PubMed 10373642]).

References

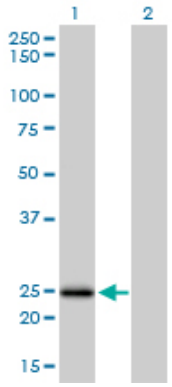
Suppression of mutagenesis by 8-hydroxy-2'-deoxyguanosine 5'-triphosphate (7,8-dihydro-8-oxo-2'-deoxyguanosine 5'-triphosphate) by human MTH1, MTH2, and NUDT5. Hori M, et al. Free Radic Biol Med, 2010 May 1. PMID 20144704.NUDT5 hydrolyzes oxidized deoxyribonucleoside diphosphates with broad substrate specificity. Kamiya H, et al. DNA Repair (Amst), 2009 Oct 2. PMID

19699693.Molecular mechanism of ADP-ribose hydrolysis by human NUDT5 from structural and kinetic studies. Zha M, et al. J Mol Biol, 2008 Jun 6. PMID 18462755.A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.Immunoaffinity profiling of tyrosine phosphorylation in cancer cells. Rush J, et al. Nat Biotechnol, 2005 Jan. PMID 15592455.

Images

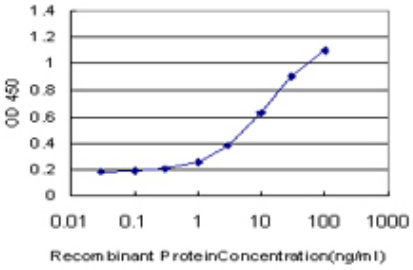


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

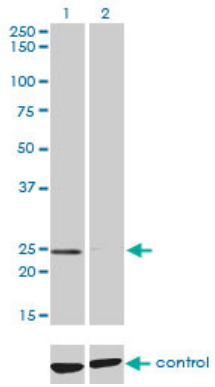


Western Blot analysis of NUDT5 expression in transfected 293T cell line by NUDT5 monoclonal antibody (M04), clone 2A3.

Lane 1: NUDT5 transfected lysate(24.3 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NUDT5 is approximately 1ng/ml as a capture antibody.



Western blot analysis of NUDT5 over-expressed 293 cell line, cotransfected with NUDT5 Validated Chimera RNAi ((Cat # AT3133a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.