

NUDT5 Antibody (monoclonal) (M04)**Mouse monoclonal antibody raised against a partial recombinant NUDT5.****Catalog # AT3133a****Specification**

NUDT5 Antibody (monoclonal) (M04) - Product Information

Application	WB, E
Primary Accession	O9UKK9
Other Accession	NM_014142
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	24328

NUDT5 Antibody (monoclonal) (M04) - 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

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.

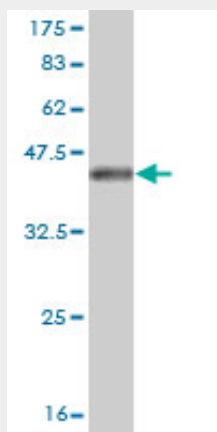
NUDT5 Antibody (monoclonal) (M04) - Protocols

Provided below are standard protocols that you may find useful for product applications.

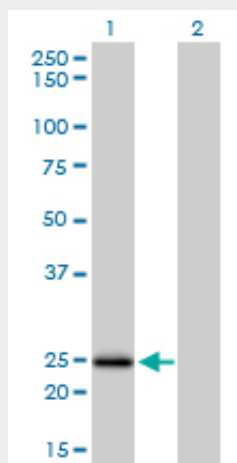
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NUDT5 Antibody (monoclonal) (M04) - Images



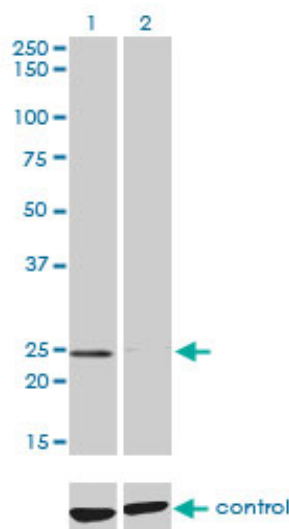
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



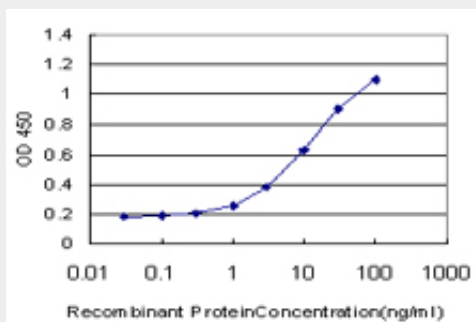
Western Blot analysis of NUDT5 expression in transfected 293T cell line by NUDT5 monoclonal antibody (M04), clone 2A3.

Lane 1: NUDT5 transfected lysate (24.3 KDa).

Lane 2: Non-transfected lysate.



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



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

NUDT5 Antibody (monoclonal) (M04) - 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]).

NUDT5 Antibody (monoclonal) (M04) - 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.