

NUDT5 recombinant antibody

NUDT5 Recombinant Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA278987	HEK293F Cell	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

NUDT5; Monoclonal Recombinant Antibody; NUDT5 Recombinant Monoclonal Antibody; ADP-sugar pyrophosphatase (EC 3.6.1.13)(8-oxo-dGDP phosphatase)(EC 3.6.1.58)(Nuclear ATP-synthesis protein NUDIX5)(EC 2.7.7.96)(Nucleoside diphosphate-linked moiety X motif 5)(Nudix motif 5)(hNUDT5)(YSA1H); NUDIX5; NUDT5 recombinant antibody

PRODUCT SPECIFICATIONS

Host	HEK293F Cell
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	10D2
Purity/Purification	Affinity purified
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for NUDT5 recombinant antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human NUDT5
Conjugation	Non-conjugated
Research Area	Epigenetics and Nuclear Signaling; Metabolism; Signal transduction
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Overlay Peak curve showing HepG2 cells stained with AAA278987 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*106cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



WB (Western Blot)

Western BlotPositive WB detected in: Hela whole cell lysateAll lanes: NUDT5 antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 25 kDaObserved band size: 36 kDa

ADDITIONAL INFORMATION

Related Product Information for NUDT5 recombinant antibody	Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate (PubMed:27257257). In absence of diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP (PubMed:10567213, PubMed:10722730, PubMed:19699693, PubMed:21389046, PubMed:17052728). Can also hydrolyze other nucleotide sugars with low activity (PubMed:19699693, PubMed:21389046). In presence of diphosphate, mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate. Nuclear ATP synthesis takes place when dephosphorylated at Thr-45 (PubMed:27257257). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed:27257257). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity). {ECO:0000250 UniProtKB:Q9JKX6, ECO:0000269 PubMed:10567213, ECO:0000269 PubMed:10722730, ECO:0000269 PubMed:17052728, ECO:0000269 PubMed:19699693, ECO:0000269 PubMed:21389046, ECO:0000269 PubMed:27257257}.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	37594464
NCBI GeneID	11164
NCBI Accession #	NP_054861.2
NCBI GenBank Nucleotide #	NM_014142.2
UniProt Accession #	Q9UUKK9; Q6IAG0; Q9U49; A8K516
Molecular Weight	24,328 Da
NCBI Official Full Name	ADP-sugar pyrophosphatase
NCBI Official Synonym Full Names	nudix (nucleoside diphosphate linked moiety X)-type motif 5
NCBI Official Symbol	NUDT5
NCBI Official Synonym Symbols	YSA1; YSA1H; YSAH1; hYSAH1
NCBI Protein Information	ADP-sugar pyrophosphatase; 8-oxo-dGDP phosphatase
UniProt Protein Name	ADP-sugar pyrophosphatase
UniProt Gene Name	NUDT5
UniProt Synonym Gene Names	Nudix motif 5
UniProt Entry Name	NUDT5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nudt5-recombinant-antibody-clone-10d2-flow-cytometry-western-blot-elisa/278987>