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NUDT4 Antibody (monoclonal) (M08)

Mouse monoclonal antibody raised against a full length recombinant NUDT4.
Catalog # AT3132a

Product Information

Application	WB, E
Primary Accession	Q9NZJ9
Other Accession	BC012069
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F2
Calculated MW	20306

Additional Information

Gene ID	11163
Other Names	Diphosphoinositol polyphosphate phosphohydrolase 2, DIPP-2, Diadenosine 5', 5'''-P1, P6-hexaphosphate hydrolase 2, 361-, Nucleoside diphosphate-linked moiety X motif 4, Nudix motif 4, NUDT4, DIPP2, KIAA0487
Target/Specificity	NUDT4 (AAH12069, 1 a.a. ~ 181 a.a) full-length 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	NUDT4 Antibody (monoclonal) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

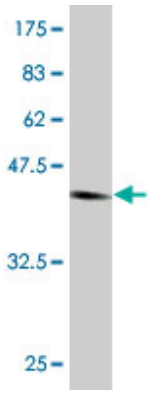
Background

The protein encoded by this gene regulates the turnover of diphosphoinositol polyphosphates. The turnover of these high-energy diphosphoinositol polyphosphates represents a molecular switching activity with important regulatory consequences. Molecular switching by diphosphoinositol polyphosphates may contribute to regulating intracellular trafficking. Several alternatively spliced transcript variants have been described, but the full-length nature of some variants has not been determined. Isoforms DIPP2alpha and DIPP2beta are distinguishable from each other solely by DIPP2beta possessing one additional amino acid due to intron boundary skidding in alternate splicing.

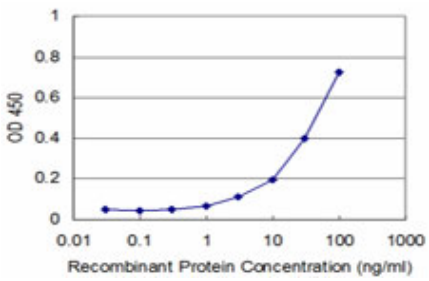
References

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Lineage-specific gene duplication and loss in human and great ape evolution. Fortna A, et al. PLoS Biol, 2004 Jul. PMID 15252450.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Nudix hydrolases that degrade dinucleoside and diphosphoinositol polyphosphates also have 5-phosphoribosyl 1-pyrophosphate (PRPP) pyrophosphatase activity that generates the glycolytic activator ribose 1,5-bisphosphate. Fisher DI, et al. J Biol Chem, 2002 Dec 6. PMID 12370170.Cloning and characterisation of hAps1 and hAps2, human diadenosine polyphosphate-metabolising Nudix hydrolases. Leslie NR, et al. BMC Biochem, 2002 Jul 16. PMID 12121577.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (45.65 KDa) .



Detection limit for recombinant GST tagged NUDT4 is approximately 3ng/ml as a capture antibody.