

NUDT21 Antibody (monoclonal) (M12)

Mouse monoclonal antibody raised against a full length recombinant NUDT21.

Catalog # AT3130a

Product Information

Application	WB, IHC, IF, E
Primary Accession	O43809
Other Accession	BC001403
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3F8
Calculated MW	26227

Additional Information

Gene ID	11051
Other Names	Cleavage and polyadenylation specificity factor subunit 5, Cleavage and polyadenylation specificity factor 25 kDa subunit, CFIm25, CPSF 25 kDa subunit, Nucleoside diphosphate-linked moiety X motif 21, Nudix motif 21, Pre-mRNA cleavage factor Im 25 kDa subunit, NUDT21, CFIM25, CPSF25, CPSF5
Target/Specificity	NUDT21 (AAH01403, 1 a.a. ~ 227 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 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	NUDT21 Antibody (monoclonal) (M12) is for research use only and not for use in diagnostic or therapeutic procedures.

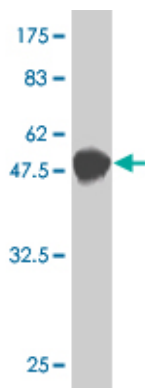
Background

The protein encoded by this gene is one subunit of a cleavage factor required for 3' RNA cleavage and polyadenylation processing. The interaction of the protein with the RNA is one of the earliest steps in the assembly of the 3' end processing complex and facilitates the recruitment of other processing factors. This gene encodes the 25kD subunit of the protein complex, which is composed of four polypeptides.

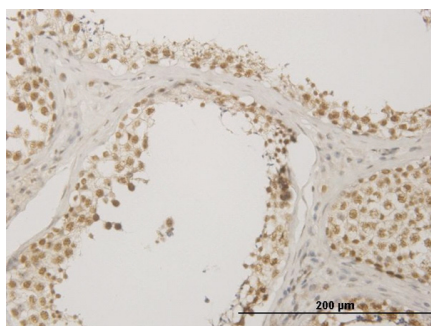
References

Structural basis of UGUA recognition by the Nudix protein CFI(m)25 and implications for a regulatory role in mRNA 3' processing. Yang Q, et al. Proc Natl Acad Sci U S A, 2010 Jun 1. PMID 20479262. The crystal structure of human cleavage and polyadenylation specific factor-5 reveals a dimeric Nudix protein with a conserved catalytic site. Tr?saugues L, et al. Proteins, 2008 Dec. PMID 18767156. Crystal structure of the 25 kDa subunit of human cleavage factor Im. Coseno M, et al. Nucleic Acids Res, 2008 Jun. PMID 18445629. Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931. Multiple histone deacetylases and the CREB-binding protein regulate pre-mRNA 3'-end processing. Shimazu T, et al. J Biol Chem, 2007 Feb 16. PMID 17172643.

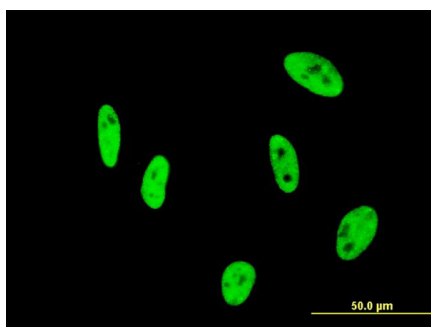
Images



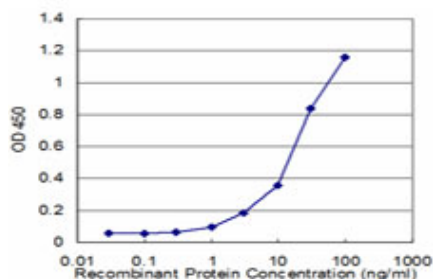
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.71 kDa) .



Immunoperoxidase of monoclonal antibody to NUDT21 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to NUDT21 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged NUDT21 is approximately 3ng/ml as a capture antibody.

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