



Rabbit Anti-NUDT20 antibody

SL4402R

Product Name:	NUDT20
Chinese Name:	NUDT20蛋白抗体
Alias:	DCP2; DCP2 decapping enzyme homolog (S. cerevisiae); DCP2, S. cerevisiae, homolog of; DCP2_HUMAN; decapping enzyme 2, S. cerevisiae, homolog of; decapping enzyme homolog (S. cerevisiae); FLJ33245; hDpc; m7GpppN-mRNA hydrolase; mRNA decapping enzyme 2; mRNA-decapping enzyme 2; Nucleoside diphosphate-linked moiety X motif 20; nudix (nucleoside diphosphate linked moiety X)-type motif 20; Nudix motif 20; NUDT20.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	48kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NUDT20:151-250/420
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is a key component of an mRNA-decapping complex required for degradation of mRNAs, both in normal mRNA turnover, and in nonsense-

mediated mRNA decay (NMD). It removes the 7-methyl guanine cap structure from mRNA, prior to its degradation from the 5' end. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jun 2011]

Function:

Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. Plays a role in replication-dependent histone mRNA degradation. Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP. Has higher activity towards mRNAs that lack a poly(A) tail. Has no activity towards a cap structure lacking a RNA moiety.

Subcellular Location:

Cytoplasm > P-body. Nucleus. Predominantly cytoplasmic, in processing bodies (PB). A minor amount is nuclear.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Belongs to the Nudix hydrolase family. DCP2 subfamily. Contains 1 nudix hydrolase domain.

SWISS:

Q8IU60

Gene ID:

167227

Database links:

[Entrez Gene: 167227](#) Human

[Entrez Gene: 70640](#) Mouse

[Omim: 609844](#) Human

[SwissProt: Q8IU60](#) Human

[SwissProt: Q9CYC6](#) Mouse

[Unigene: 443875](#) Human

[Unigene: 87629](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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