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Product datasheet

Recombinant Human Dcp2/TDT protein ab132368

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Description

Product name	Recombinant Human Dcp2/TDT protein
Expression system	Wheat germ
Accession	Q8IU60-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	METKRVEIPGSVLDDLCSRFILHIPSEERDNAIRVCFQIELA HWFYLDFY MQNTPGLPQCGIRDFAKAVFSHCPFLLPQGEDVEKVLDE WKEYKMGVPTY GAIILDETLENVLLVQGYLAKSGWGFPKGKVNKEEAPHDC AAREVFEETG FDIKDYICKDDYIELRINDQLARLYIIPGIPKDTKFNPKTRREIR NIEWF SIEKLPCHRNDMTPKSKLGLAPNKFFMAIPFIRPLRDWLSR RFGDSSDSD NGFSSTGSTPAKPTVEKLSRTKFRHSQQLFPDGSPGDQ WVKHRQPLQQKP YNNHSEMSDLLKGKKCEKKLHPRKLQDNFETDAVYDLPS SSEDQLLEHAE GQPVACNGHCKFPFSSRAFLSFKFDHNAIMKILDL
Predicted molecular weight	68 kDa including tags
Amino acids	1 to 385

Specifications

Our **Abpromise guarantee** covers the use of **ab132368** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA
	Western blot
	SDS-PAGE

Form	Liquid
Additional notes	This product was previously labelled as Dcp2.

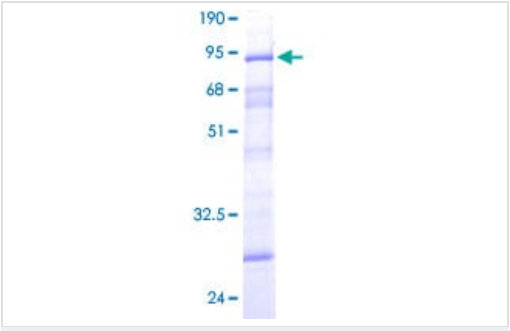
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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.
Sequence similarities	Belongs to the Nudix hydrolase family. DCP2 subfamily. Contains 1 nudix hydrolase domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm > P-body. Nucleus. Predominantly cytoplasmic, in processing bodies (PB). A minor amount is nuclear.

Images



SDS-PAGE - Recombinant Human Dcp2/TDT protein (ab132368)

12.5% SDS-PAGE analysis of ab132368 stained with Coomassie Blue.

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