



[Go to Product page](#)

Datasheet for ABIN7149693

## anti-CDT2/RAMP antibody (AA 393-550) (FITC)

### Overview

Quantity:	100 µg
Target:	CDT2/RAMP (DTL)
Binding Specificity:	AA 393-550
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDT2/RAMP antibody is conjugated to FITC
Application:	Please inquire

### Product Details

Immunogen:	Recombinant Human Denticleless protein homolog protein (393-550AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	CDT2/RAMP (DTL)
Alternative Name:	DTL ( <a href="#">DTL Products</a> )
Background:	Background: Substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control, DNA damage response and translesion DNA synthesis.

## Target Details

The DCX(DTL) complex, also named CRL4(CDT2) complex, mediates the polyubiquitination and subsequent degradation of CDT1, CDKN1A/p21(CIP1), FBXO18/FBH1 and KMT5A (PubMed:16861906, PubMed:16949367, PubMed:16964240, PubMed:17085480, PubMed:18703516, PubMed:18794347, PubMed:18794348, PubMed:19332548, PubMed:20129063, PubMed:23478441, PubMed:23478445, PubMed:23677613). CDT1 degradation in response to DNA damage is necessary to ensure proper cell cycle regulation of DNA replication (PubMed:16861906, PubMed:16949367, PubMed:17085480). CDKN1A/p21(CIP1) degradation during S phase or following UV irradiation is essential to control replication licensing (PubMed:18794348, PubMed:19332548). KMT5A degradation is also important for a proper regulation of mechanisms such as TGF-beta signaling, cell cycle progression, DNA repair and cell migration (PubMed:23478445). Most substrates require their interaction with PCNA for their polyubiquitination: substrates interact with PCNA via their PIP-box, and those containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to their degradation. In undamaged proliferating cells, the DCX(DTL) complex also promotes the 'Lys-164' monoubiquitination of PCNA, thereby being involved in PCNA-dependent translesion DNA synthesis (PubMed:20129063, PubMed:23478441, PubMed:23478445, PubMed:23677613).

Aliases: Lethal(2) denticleless protein homolog antibody, CDW1 antibody, DCAF2 antibody, DDB1 and CUL4 associated factor 2 antibody, Ddb1- and Cul4-associated factor 2 antibody, Denticleless homolog antibody, Denticleless homolog (Drosophila) antibody, Denticleless protein homolog antibody, Dtl antibody, DTL\_HUMAN antibody, L2DTL antibody, Lethal(2) denticleless protein homolog antibody, RA regulated nuclear matrix associated protein antibody, RAMP antibody, Retinoic acid regulated nuclear matrix associated protein antibody, Retinoic acid-regulated nuclear matrix-associated protein antibody

UniProt: [Q9NZJ0](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

## Handling

---

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.