antibodies -online.com





anti-CDT2/RAMP antibody (Middle Region)

2 Images



Publication



Go to Product page

\sim			
	$ \backslash / \cap$	r\/I	$\triangle V$

Overview		
Quantity:	0.4 mL	
Target:	CDT2/RAMP (DTL)	
Binding Specificity:	AA 229-256, Middle Region	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CDT2/RAMP antibody is un-conjugated	
Application:	Western Blotting (WB), Flow Cytometry (FACS), Enzyme Immunoassay (EIA)	
Product Details		
Immunogen:	KLH conjugated synthetic peptide between 229-256 amino acids from the Central region of Human DTL.	
Isotype:	Ig Fraction	
Specificity:	This antibody recognizes Human and Mouse CDT2 / DTL (Center).	
Purification:	Affinity Chromatography on Protein A	
Target Details		
Target:	CDT2/RAMP (DTL)	
Alternative Name:	CDT2 / DTL (DTL Products)	
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. The DCX(DTL) complex, also named CRL4(CDT2) complex, mediates the polyubiquitination and subsequent degradation of CDT1 and CDKN1A/p21(CIP1). CDT1 degradation in response to DNA damage is necessary to ensure proper cell cycle regulation of DNA replication. CDKN1A/p21(CIP1) degradation during S phase or following UV irradiation is essential to control replication licensing. 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.Synonyms: CDW1, DCAF2, Ddb1- and Cul4-associated factor 2, Denticleless protein homolog, L2DTL, Lethal(2) denticleless protein homolog, RA regulated Nuclear Matrix Associated Protein, RAMP, Retinoic acid-regulated nuclear matrix-associated protein

Molecular Weight: 79468 Da

Gene ID: 51514

NCBI Accession: NP_057532

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

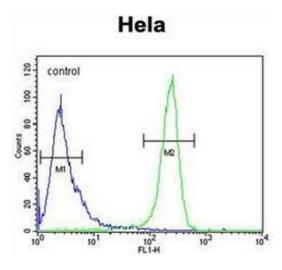
Handling

Format:	Liquid	
Concentration:	0.25 mg/mL	
Buffer:	PBS with 0.09 % (W/V) Sodium Azide as preservative	
Preservative:	Sodium azide	
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.	

Product cited in:

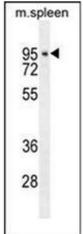
Abbas, Sivaprasad, Terai, Amador, Pagano, Dutta: "PCNA-dependent regulation of p21 ubiquitylation and degradation via the CRL4Cdt2 ubiquitin ligase complex." in: **Genes & development**, Vol. 22, Issue 18, pp. 2496-506, (2008) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometric analysis of Hela cells using CDT2 / DTL Antibody (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-antirabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of CDT2 / DTL Antibody in mouse spleen tissue lysates (35ug/lane). This demonstrates the DTL antibody detected the DTL protein (arrow).