Datasheet for ABIN6139847

anti-CDT2/RAMP antibody (AA 541-730)

1 Image

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Overview

Quantity:	100 µL
Target:	CDT2/RAMP (DTL)
Binding Specificity:	AA 541-730
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDT2/RAMP antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 541-730 of human DTL (NP_057532.3).
Sequence:	AEACSESRNR VKRRLDSSCL ESVKQKCVKS CNCVTELDGQ VENLHLDLCC LAGNQEDLSK DSLGPTKSSK IEGAGTSISE PPSPISPYAS ESCGTLPLPL RPCGEGSEMV GKENSSPENK NWLLAMAAKR KAENPSPRSP SSQTPNSRRQ SGKTLPSPVT ITPSSMRKIC TYFHRKSQED FCGPEHSTEL
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	CDT2/RAMP (DTL)
Alternative Name:	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, CDKN1A/p21(CIP1, FBH1, KMT5A and SDE2. 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. KMT5A degradation is also important for a proper regulation of mechanisms such as TGF-beta signaling, cell cycle progression, DNA repair and cell migration. 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. The DDB1-CUL4A-DTL E3 ligase complex regulates the circadian clock function by mediating the ubiquitination and degradation of CRY1.,DTL,CDT2,DCAF2,L2DTL,RAMP,Cell Biology & Developmental Biology,Cell Cycle,Ubiquitin,DTL
Molecular Weight:	23 kDa/79 kDa
Gene ID:	51514
UniProt:	Q9NZJ0

Application Details

Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

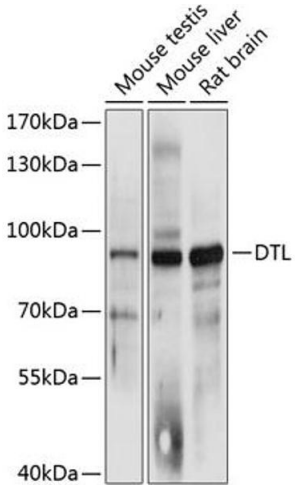
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using DTL antibody (ABIN6133220, ABIN6139847, ABIN6139848 and ABIN6215737) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.