

— ABLYBIO, Help Your Research



# CDT2 Rabbit mAb

货号: **AYM29600**

## 产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB IHC IF/ICC FC
推荐浓度	<b>WB:</b> 1:500 - 1:2000 <b>IHC:</b> 1:50 - 1:200 <b>IF/ICC:</b> 1:50 - 1:200 <b>FC:</b> 1:20 - 1:50
理论分子量	23kDa/79kDa
实测分子量	91kDa
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	Mouse testis,Mouse liver,Rat brain
细胞定位	Chromosome,Cytoplasm,Nucleoplasmic side,Nucleus,Nucleus membrane,Peripheral membrane protein,centrosome,cytoskeleton,microtubule organizing center
纯化	Affinity purification

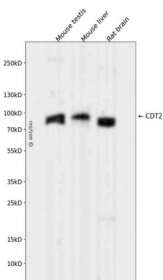
## 抗原信息

抗原信息	Recombinant fusion protein corresponding to Human CDT2.
------	---

## 靶点信息

研究背景	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.
基因ID	51514
基因名	DTL
Swiss	Q9NZJ0 ( <a href="https://www.uniprot.org/uniprotkb/Q9NZJ0/entry">https://www.uniprot.org/uniprotkb/Q9NZJ0/entry</a> )
别名	CDT2, CDT2 Rabbit mAb, DTL, DDB1- and CUL4-associated factor 2, Lethal(2) denticleless protein homolog, Retinoic acid-regulated nuclear matrix-associated protein, CDW1, DCAF2, L2DTL, RAMP

## 产品验证



Western blot analysis of CDT2 expressed in Mouse testis, Mouse liver, Rat brain using CDT2 Rabbit mAb at 1:1000. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:5000. Lysates/proteins: 30ug per lane. Blocking buffer: 5% non-fat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 120s.

## 实验步骤

访问官网浏览详情: [www.ablybio.cn](http://www.ablybio.cn) (<https://www.ablybio.cn/www.ablybio.cn>)