abcam

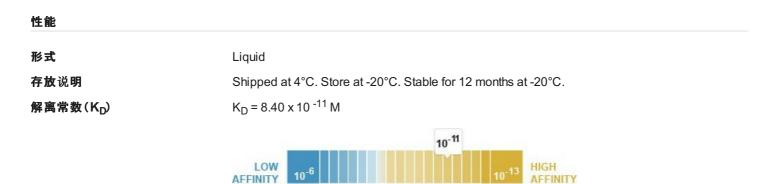
Product datasheet

Anti-DDB1 antibody [EPR6089] ab109027

重组 RabMAb

<u>21 References</u> 6 图像

概述			
产品名称	Anti-DDB1 抗体 [EPR6089]		
描述	兔 单 克隆抗体 [EPR6089] to DDB1		
宿主	Rabbit		
经测试应 用	适用于: ICC/IF, WB, IHC-P 不适用于: Flow Cyt		
种属反 应性	与反应: Mouse, Human		
	预测可用于: Rat 🔺		
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.		
阳性 对 照	HepG2, HeLa, NIH3T3, and Human platelet lysates, Human breast tissue. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: UV-treated HeLa		
常 规说 明	 This product is a recombinant monoclonal antibody, which offers several advantages including: High batch-to-batch consistency and reproducibility Improved sensitivity and specificity Long-term security of supply Animal-free production For more information <u>see here</u>. Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u>. 		



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存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯 度	Protein A purified
克隆	单 克隆
克隆 编号	EPR6089
同种型	lgG

应用

The Abpromise guarantee Abpromise ™承诺保证使用ab109027于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/100.
WB		1/50000 - 1/200000. Detects a band of approximately 130 kDa (predicted molecular weight: 127 kDa).
ІНС-Р		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

应用说明

Is unsuitable for Flow Cyt.

靶标

功能

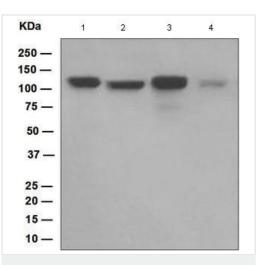
Required for DNA repair. Binds to DDB2 to form the UV-damaged DNA-binding protein complex (the UV-DDB complex). The UV-DDB complex may recognize UV-induced DNA damage and recruit proteins of the nucleotide excision repair pathway (the NER pathway) to initiate DNA repair. The UV-DDB complex preferentially binds to cyclobutane pyrimidine dimers (CPD), 6-4 photoproducts (6-4 PP), apurinic sites and short mismatches. Also appears to function as a component of numerous distinct DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. The functional specificity of the DCX E3 ubiquitin-protein ligase complex is determined by the variable substrate recognition component recruited by DDB1. DCX(DDB2) (also known as DDB1-CUL4-ROC1, CUL4-DDB-ROC1 and CUL4-DDB-RBX1) may ubiquitinate histone H2A, histone H3 and histone H4 at sites of UV-induced DNA damage. The ubiquitination of histones may facilitate their removal from the nucleosome and promote subsequent DNA repair. DCX(DDB2) also ubiguitinates XPC, which may enhance DNA-binding by XPC and promote NER. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2dependent ubiquitination of TP53 in response to radiation-induced DNA damage and during DNA replication. DCX(ERCC8) (the CSA complex) plays a role in transcription-coupled repair (TCR). May also play a role in ubiquitination of CDKN1B/p27kip when associated with CUL4 and SKP2. Protein modification; protein ubiquitination.

通路

Ubiquitinated by CUL4A. Subsequently degraded by ubiquitin-dependent proteolysis.

Cytoplasm. Nucleus. Primarily cytoplasmic. Translocates to the nucleus following UV irradiation and subsequently accumulates at sites of DNA damage.

图片



Western blot - Anti-DDB1 antibody [EPR6089]

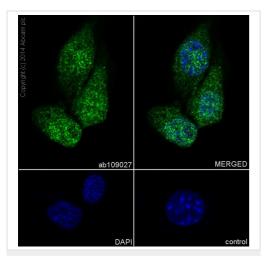
(ab109027)

All lanes : Anti-DDB1 antibody [EPR6089] (ab109027) at 1/50000 dilution

- Lane 1 : HepG2 cell lysate
- Lane 2 : HeLa cell lysate
- Lane 3 : NIH3T3 cell lysate
- Lane 4 : Human platelet lysate

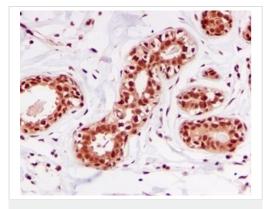
Lysates/proteins at 10 µg per lane.

Predicted band size: 127 kDa



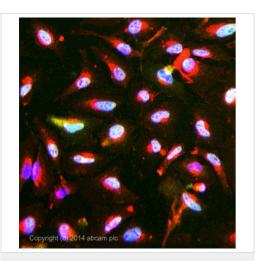
Immunocytochemistry/ Immunofluorescence - Anti-DDB1 antibody [EPR6089] (ab109027) Immunocytochemistry analysis of NIH/3T3 (mouse embryonic fibroblast) cells labeling DDB1 with ab109027 at 1/250 (8.9 µg/mL). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. **ab150077** AlexaFluor[®]488 Goat anti-Rabbit at 1/1000 (2 µg/mL) was used as the secondary antibody. DAPI (blue) was used as nuclear counterstain.

Confocal image showing nuclear and cytoplasmic staining in NIH/3T3 cells.

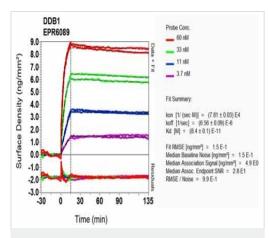


Immunohistochemical analysis of paraffin-embedded Human breast tissue using ab109027 at a dilution of 1/100. Antigen retrieval was heat mediated before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-DDB1 antibody [EPR6089] (ab109027)



Immunocytochemistry/ Immunofluorescence - Anti-DDB1 antibody [EPR6089] (ab109027) ab109027 stained UV-treated HeLa cells. The cells were 4% formaldehyde fixed for 10 minutes at room temperature and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab109027 at 1/100 dilution) overnight at +4°C. The secondary antibody (pseudocolored green) was **ab150081** used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



OI-RD Scanning - Anti-DDB1 antibody [EPR6089] (ab109027) Equilibrium disassociation constant (K_D) Learn more about K_D

Click here to learn more about KD



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