

Anti-DDB1 antibody ab9194

★★★★★ [2 Abreviews](#) [11 References](#) [画像数 3](#)

製品の概要

製品名	Anti-DDB1 antibody
製品の詳細	Goat polyclonal to DDB1
由来種	Goat
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat, Cow, Dog 
免疫原	Synthetic peptide corresponding to Human DDB1 aa 1128-1140 (C terminal). Sequence: C-DLIKVVEELTRIH (Peptide available as ab23152) Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: HeLa lysate, HepG2 lysate, Jurkat lysate, NIH3T3 lysate and NSO lysate. IHC-P: Human cortex tissue.

特記事項

Recognizes the large subunit of DNA damage-binding protein - functions in nucleotide-excision repair. Its defective activity causes the repair defect in the patients with xeroderma pigmentosum complementation group E (XPE). DDB-1 (damage-specific DNA binding protein 1) is also known as: DDBA; XAP1; XPCE; XPE-BF;UV-DDB1

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

	cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
精製度	Immunogen affinity purified
特記事項 (精製)	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
一次抗体 備考	Recognizes the large subunit of DNA damage-binding protein - functions in nucleotide-excision repair. Its defective activity causes the repair defect in the patients with xeroderma pigmentosum complementation group E (XPE). DDB-1 (damage-specific DNA binding protein 1) is also known as: DDBA; XAP1; XPCE; XPE-BF;UV-DDB1
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab9194の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (2)	Use a concentration of 0.01 - 2 µg/ml. Predicted molecular weight: 127 kDa. 1 hour primary incubation is recommended for this product.
IHC-P		Use a concentration of 4 - 6 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能

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 ubiquitinates XPC, which may enhance DNA-binding by XPC and promote NER. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2-dependent 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.

パスウェイ

Protein modification; protein ubiquitination.

配列類似性

Belongs to the DDB1 family.

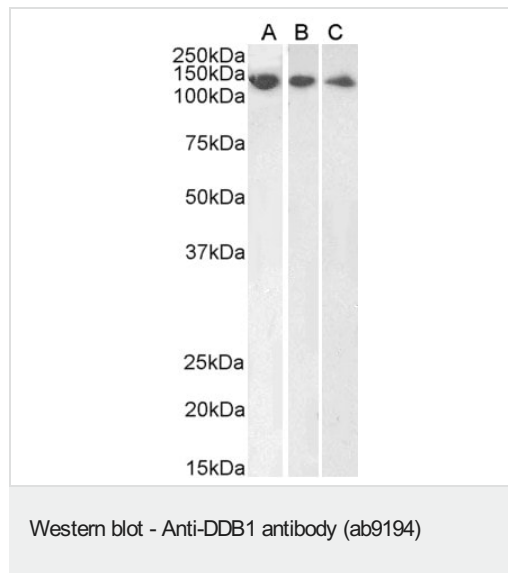
翻訳後修飾

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

細胞内局在

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

画像



All lanes : Anti-DDB1 antibody (ab9194) at 1 μ g/ml

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

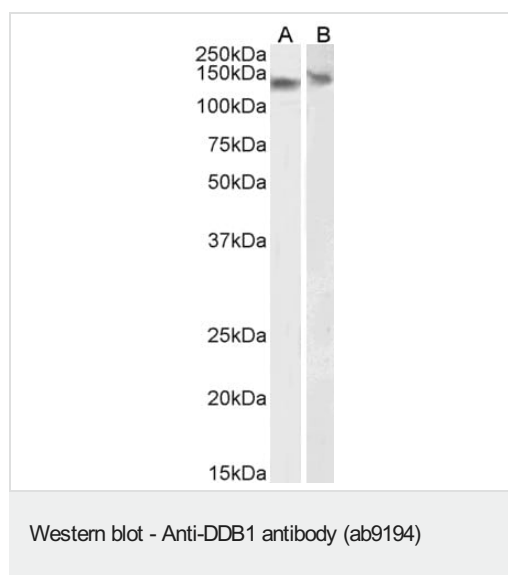
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 35 μ g per lane.

Predicted band size: 127 kDa

Observed band size: 140 kDa

Primary incubation for 1 hour. Detected by chemiluminescence.
RIPA buffer used.



All lanes : Anti-DDB1 antibody (ab9194) at 0.01 μ g/ml

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

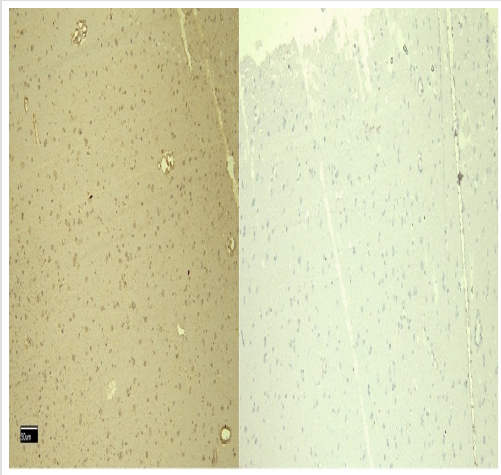
Lane 2 : NSO (Murine myeloma cells) whole cell lysate

Lysates/proteins at 35 μ g per lane.

Predicted band size: 127 kDa

Observed band size: 140, 150 kDa

Primary incubation for 1 hour. Detected by chemiluminescence.
RIPA buffer used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDB1 antibody (ab9194)

Left panel: Immunohistochemical analysis of paraffin-embedded human cortex tissue labelling DDB1 with ab9194 at 4µg/ml. Heat mediated antigen retrieval with citrate buffer pH 6, HRP-staining.

Right panel: Immunohistochemical analysis of paraffin-embedded human cortex tissue with no primary antibody.

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