Datasheet for ABIN3043823

anti-DDB1 antibody (AA 1011-1140)

8 Images

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Overview

Quantity:	100 µg
Target:	DDB1
Binding Specificity:	AA 1011-1140
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for DNA damage-binding protein 1(DDB1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human DDB1 recombinant protein (Position: S1011-H1140). Human DDB1 shares 99.2% amino acid (aa) sequence identity with both mouse and rat DDB1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for DNA damage-binding protein 1(DDB1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: damage-specific DNA binding protein 1, 127 kDa Protein Name: DNA damage-binding protein 1
Purification:	Immunogen affinity purified.

Target Details

Target:	DDB1
Alternative Name:	DDB1 (DDB1 Products)
Background:	The protein encoded by this gene is the large subunit (p127) of the heterodimeric DNA damage-binding (DDB) complex while another protein (p48) forms the small subunit. And this protein complex functions in nucleotide-excision repair and binds to DNA following UV damage. Defective activity of this complex causes the repair defect in patients with xeroderma pigmentosum complementation group E (XPE) - an autosomal recessive disorder characterized by photosensitivity and early onset of carcinomas. However, it remains for mutation analysis to demonstrate whether the defect in XPE patients is in this gene or the gene encoding the small subunit. In addition, Best vitelliform mascular dystrophy is mapped to the same region as this gene on 11q, but no sequence alternations of this gene are demonstrated in Best disease patients. The protein encoded by this gene also functions as an adaptor molecule for the cullin 4 (CUL4) ubiquitin E3 ligase complex by facilitating the binding of substrates to this complex and the ubiquitination of proteins. Synonyms: Damage specific DNA binding protein 1 antibody|Damage-specific DNA-binding protein 1 antibody|DDB 1 antibody|DDB p127 subunit antibody|Ddb1 antibody|DDB1_HUMAN antibody|DDBa antibody|DNA damage binding protein 1 antibody|DNA damage-binding protein 1 antibody| DNA damage-binding protein a antibody|HBV X-associated protein 1 antibody|UV damaged DNA binding factor antibody|UV damaged DNA binding protein 1 antibody|UV DDB 1 antibody|UV DDB1 antibody|UV-damaged DNA-binding factor antibody|UV-damaged DNA-binding protein 1 antibody|UV-DDB 1 antibody|UV-DDB1 antibody|X associated protein 1 antibody|XAP 1 antibody|XAP-1 antibody|XAP1 antibody|Xeroderma pigmentosum group E complementing protein antibody|Xeroderma pigmentosum group E-complementing protein antibody|XPCE antibody|XPE antibody|XPE BF antibody|XPE binding factor antibody|XPE-BF antibody|XPE-binding factor antibody
Gene ID:	1642
UniProt:	Q16531
Pathways:	DNA Damage Repair

Application Details

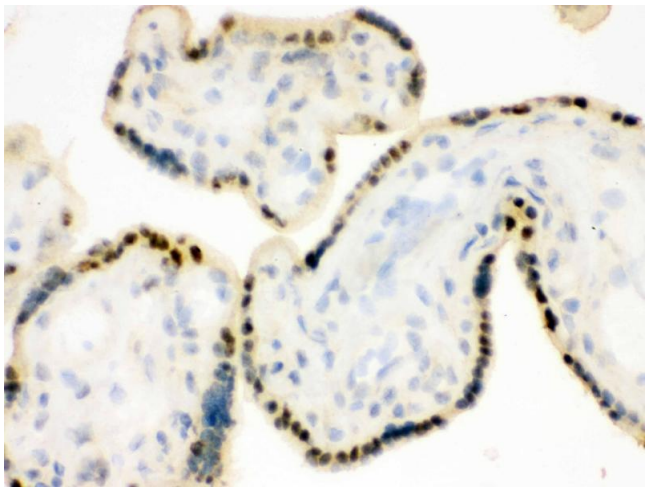
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by

Application Details

	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

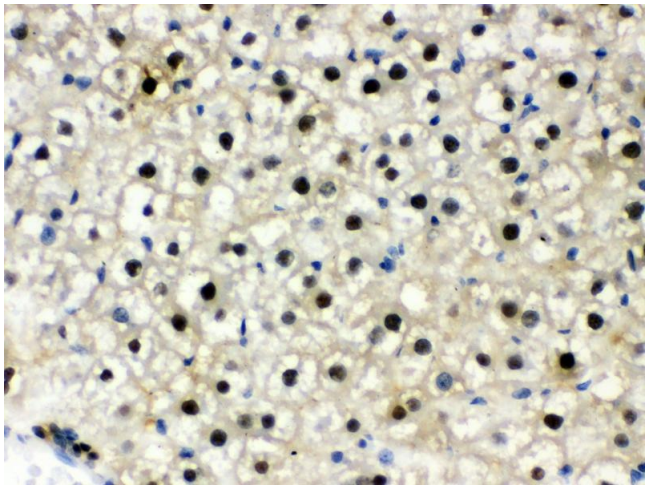
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
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:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



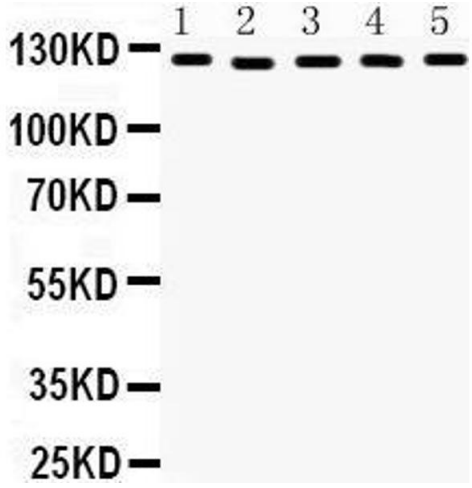
Immunohistochemistry

Image 1. IHC analysis of DDB1 using anti-DDB1 antibody . DDB1 was detected in frozen section of human placenta tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-DDB1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 2. Anti-DDB1 Picoband antibody, IHC(P) IHC(P): Rat Liver Tissue



Western Blotting

Image 3.

Please check the product details page for more images. Overall 8 images are available for ABIN3043823.