

DDB1 Polyclonal Antibody | anti-DDB1 antibody

Anti-DDB1 Antibody

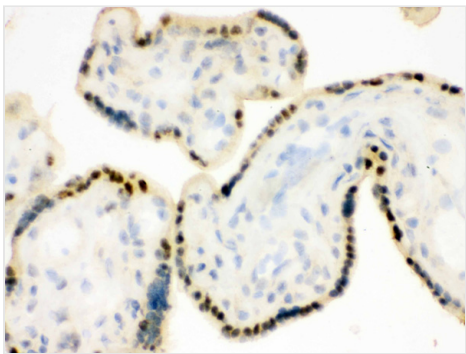
CATALOG # AAA11660	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

DDB1; Polyclonal Antibody; Anti-DDB1 Antibody; DNA damage-binding protein 1; Damage specific DNA binding protein 1; Damage-specific DNA-binding protein 1; DDB 1; DDB p127 subunit; Ddb1; DDB1_HUMAN; DDBa; DNA damage binding protein 1; DNA damage-binding protein a; HBV X-associated protein 1; UV damaged DNA binding factor; UV damaged DNA binding protein 1; UV DDB 1; UV DDB1; UV-damaged DNA-binding factor; UV-damaged DNA-binding protein 1; UV-DDB 1; UV-DDB1; X associated protein 1; XAP 1; XAP-1; XAP1; Xeroderma pigmentosum group E complementing protein; Xeroderma pigmentosum group E-complementing protein; XPCE; XPE; XPE BF; XPE binding factor; XPE-BF; XPE-binding factor; damage-specific DNA binding protein 1; 127kDa; anti-DDB1 antibody

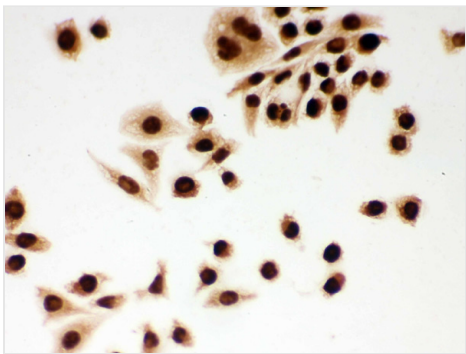
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1140
Applicable Applications for anti-DDB1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml
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.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



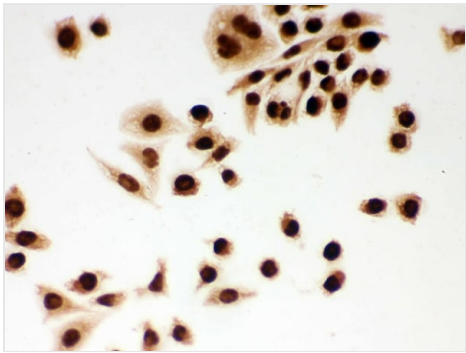
IHC (Immunohistochemistry)

Figure 8. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



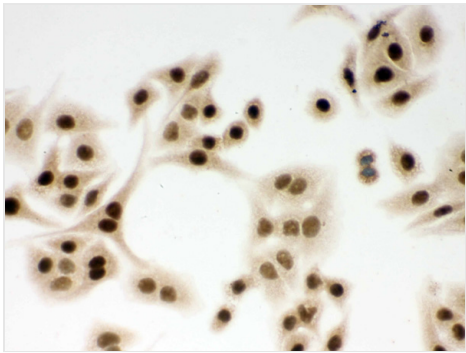
ICC (Immunocytochemistry)

Figure 7. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).DDB1 was detected in immunocytochemical section of SMMC-7721 cell. 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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



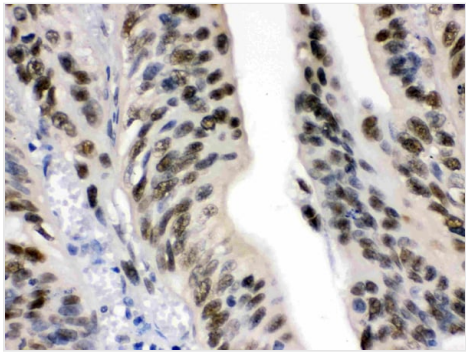
ICC (Immunocytochemistry)

Figure 6. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).DDB1 was detected in immunocytochemical section of PC-3 cell. 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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



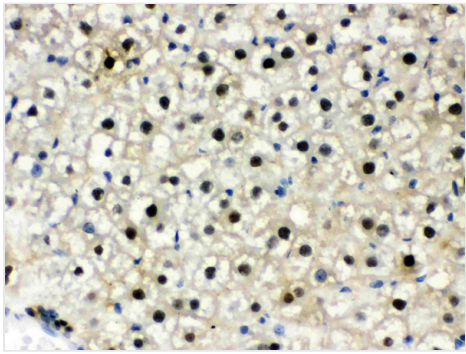
ICC (Immunocytochemistry)

Figure 5. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).DDB1 was detected in immunocytochemical section of A549 cell. 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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).DDB1 was detected in paraffin-embedded section of Human Intestinal Cancer 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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of DDB1 using anti-DDB1 antibody (AAA11660).DDB1 was detected in paraffin-embedded section of Rat Liver 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 1ug/ml rabbit anti-DDB1 Antibody (AAA11660) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-DDB1 antibody	Description: Rabbit IgG polyclonal antibody for DNA damage-binding protein 1(DDB1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. 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 macular 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.
References	1. "Entrez Gene: DDB1 damage-specific DNA binding protein 1, 127kDa". 2. Dualan R, Brody T, Keeney S, Nichols AF, Admon A, Linn S (Feb 1996). "Chromosomal localization and cDNA cloning of the genes (DDB1 and DDB2) for the p127 and p48 subunits of a human damage-specific DNA binding protein". Genomics 29 (1): 62-9. 3. Seki N, Hayashi A, Hattori A, Kozuma S, Sasaki M, Suzuki Y, Sugano S, Muramatsu M, Saito T (Jan 2000). "cDNA cloning, tissue expression, and chromosomal assignment of a mouse gene, encoding a 127 kDa UV-damaged DNA binding protein which is defective in XPE cells". DNA Res 6 (5): 319-22.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148529014
NCBI GeneID	1642
NCBI Accession #	NP_001914.3
NCBI GenBank Nucleotide #	NM_001923.4
UniProt Accession #	Q16531 ; O15176 ; Q13289 ; Q58F96 ; A6NG77 ; B2R648 ; B4DG00
Molecular Weight	50,611 Da
NCBI Official Full Name	DNA damage-binding protein 1
NCBI Official Synonym Full Names	damage specific DNA binding protein 1
NCBI Official Symbol	DDB1
NCBI Official Synonym Symbols	XPE; DDBA; XAP1; XPCE; XPE-BF; UV-DDB1
NCBI Protein Information	DNA damage-binding protein 1
UniProt Protein Name	DNA damage-binding protein 1
UniProt Gene Name	DDB1
UniProt Synonym Gene Names	XAP1; DDBa; XAP-1; UV-DDB 1; XPE-BF; XPCE
UniProt Entry Name	DDB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ddb1-antibody-western-blot-immunohistochemistry-elisa/11660>