

DDB1 Rabbit mAb

Catalog No.: A5022 **Recombinant**

Basic Information

Observed MW

127kDa

Calculated MW

127kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC1278

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. 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.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:500 - 1:1000

Immunogen Information

Gene ID

1642

Swiss Prot

Q16531

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1041-1140 of human DDB1 (NP_001914.3).

Synonyms

XPE; DDBA; XAP1; XPCE; XPE-BF; UV-DDB1; WHIKERS; DDB1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

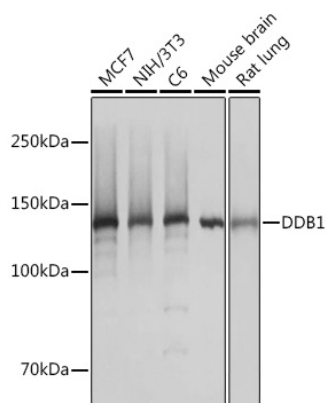
Affinity purification

Storage

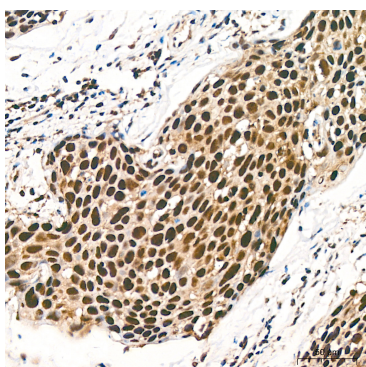
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

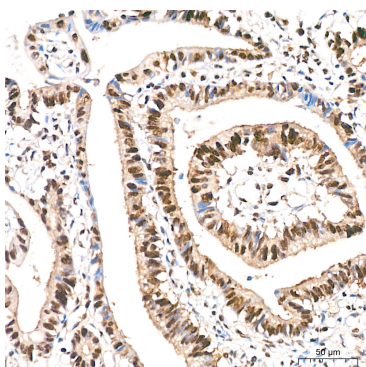
Validation Data



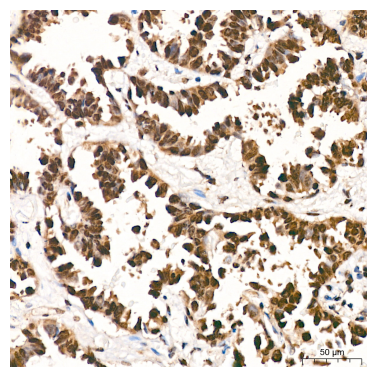
Western blot analysis of extracts of various cell lines, using DDB1 Rabbit mAb (A5022) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



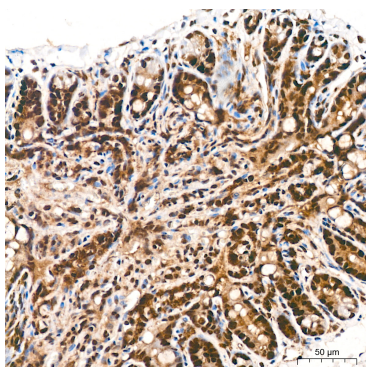
Immunohistochemistry analysis of DDB1 in paraffin-embedded human cervix cancer tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



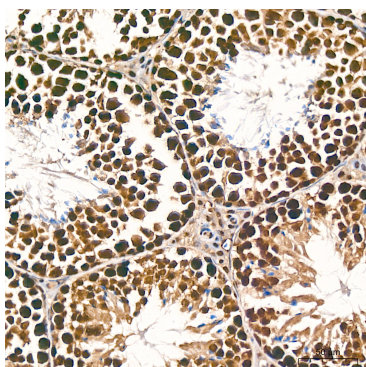
Immunohistochemistry analysis of DDB1 in paraffin-embedded human colon carcinoma tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



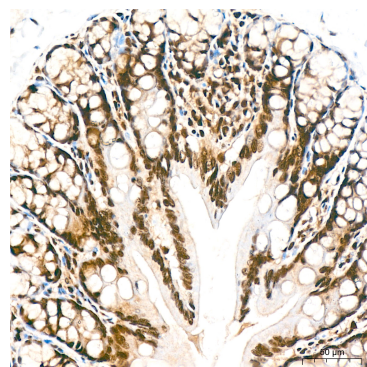
Immunohistochemistry analysis of DDB1 in paraffin-embedded Human lung adenocarcinoma tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of DDB1 in paraffin-embedded mouse colon tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of DDB1 in paraffin-embedded mouse testis tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of DDB1 in paraffin-embedded rat colon tissue using DDB1 Rabbit mAb (A5022) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.