



Catalog: OM638961

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DDB1

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☐ 100 µl

Product profile

Product name	DDB1
Antibody Type	Primary Antibodies
Product description	Damaged DNA binding protein (DDB) is a heterodimer composed of two subunits, p127 and p48, which are designated DDB1 and DDB2, respectively. The DDB heterodimer is involved in repairing DNA damaged by ultraviolet light. Specifically, DDB, also designated UV-damaged DNA binding protein (UV-DDB), xeroderma pigmentosum group E binding factor (XPE-BF) and hepatitis B virus X-associated protein 1 (XAP-1), binds to damaged cyclobutane pyrimidine dimers (CPDs). Mutations in the DDB2 gene are implicated as causes of xeroderma pigmentosum group E, an autosomal recessive disease in which patients are defective in nucleotide excision DNA repair. XPE is characterized by hypersensitivity of the skin to sunlight with a high frequency of skin cancer as well as neurologic abnormalities. The hepatitis B virus (HBV) X protein interacts with DDB1, which may mediate HBx transactivation.
Immunogen	Recombinant protein

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

Alternative Names	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
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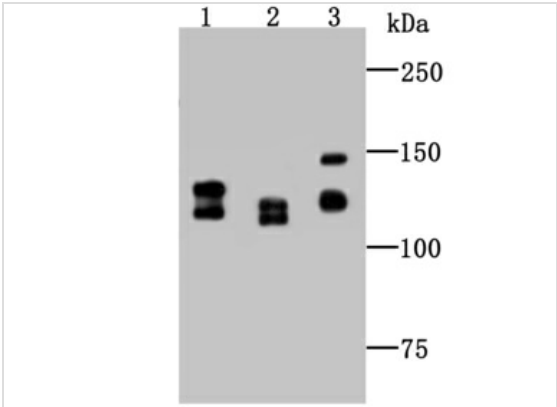
y UV-damaged DNA-binding protein 1 antibody UV-DDB 1 antibody X associated protein 1 antibody XAP 1 antibody XAP-1 antibody XAP1 antibody Xeroderma pigmentosum group E complementing protein antibody Xeroderma pigmentosum group E-complementing protein antibody XPGe antibody XPE antibody XPE BF antibody XPE binding factor antibody XPE-BF antibody XPE-binding factor antibody

Molecular Weight(MW)	127 kDa, additional band 150kDa
Cellular Localization	Nucleus. Cytoplasm.

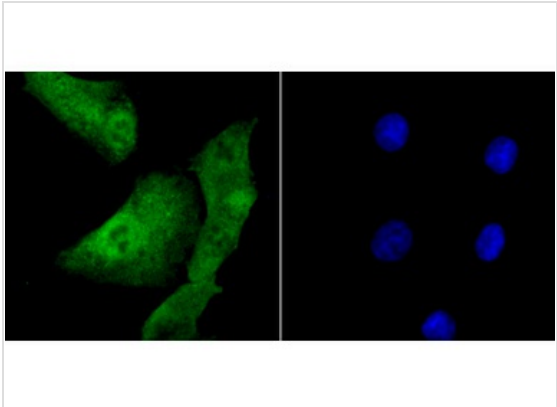
Database Links

SwissProt ID	Q16531
	Q3U1J4
	Q9ESW0

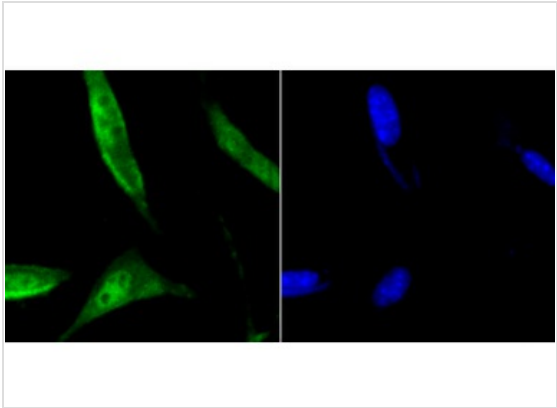
Application



Application
Fig1: Western blot analysis of DDB1 on different cell lysate using anti-DDB1 antibody at 1/1,000 dilution. Positive control □ Lane1: Mouse colon tissue Lane2: PC-12 Lane3: SiHa

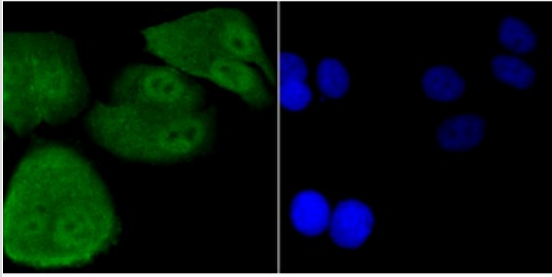


Application
Fig2: ICC staining DDB1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

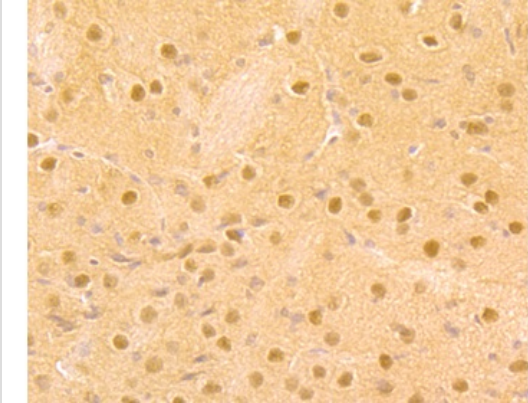


Application
Fig3: ICC staining DDB1 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Application
Fig4: ICC staining DDB1 in SK-Br-3 cells (green). The nuclear counter stain is DAPI

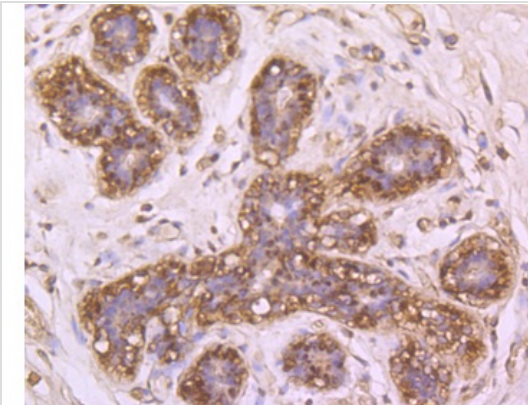


(blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



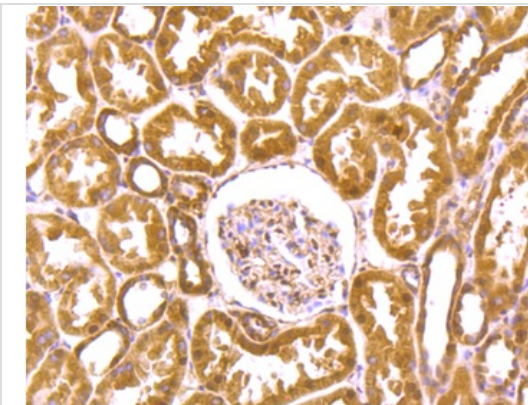
Application

Fig5: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-DDB1 antibody. Counter stained with hematoxylin.



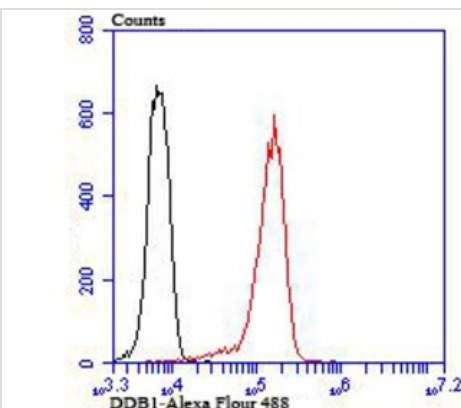
Application

Fig6: Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-DDB1 antibody. Counter stained with hematoxylin.



Application

Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-DDB1 antibody. Counter stained with hematoxylin.



Application

Fig8: Flow cytometric analysis of K562 cells with DDB1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	Mouse colon tissue lysate, PC-12, Siha, A549, SH-SY5Y, SK-Br-3, K562, human breast, human kidney, rat brain.
Application Notes	WB: 1:500-1:1000 ICC: 1:100-1:500 IHC: 1:100-1:500 FC: 1:50-1:100

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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