

## anti- DDB1 antibody

### Product Information

Catalog No.:	FNab02285
Size:	100µg
Form:	liquid
Purification:	Protein A+G purification
Purity:	≥95% as determined by SDS-PAGE
Host:	Mouse
Clonality:	monoclonal
Clone ID:	3A0
IsoType:	IgG2a
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

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.

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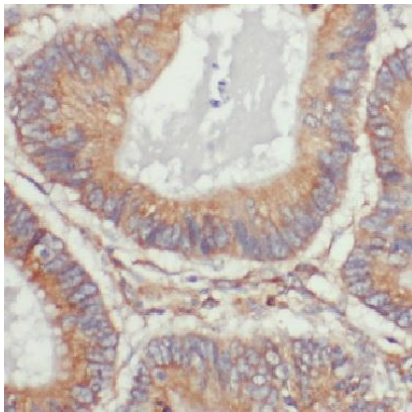
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### Immunogen information

Immunogen: damage-specific DNA binding protein 1, 127kDa  
Synonyms: DDB p127 subunit, DDB1, DDBA, DNA damage binding protein 1, DNA damage binding protein a, HBV X associated protein 1, UV damaged DNA binding factor, UV DDB 1, UV  
Observed MW: 127 kDa  
Uniprot ID : Q16531

### Application

Reactivity: Human, Mouse, Rat  
Tested Application: ELISA, WB, IHC, IF  
Recommended dilution: WB: 1:500-1:2000; IHC: 1:200-1:800  
Image:



Immunohistochemistry of paraffin-embedded human cervical cancer using FNab02285(DDB1 antibody) at dilution of 1:200

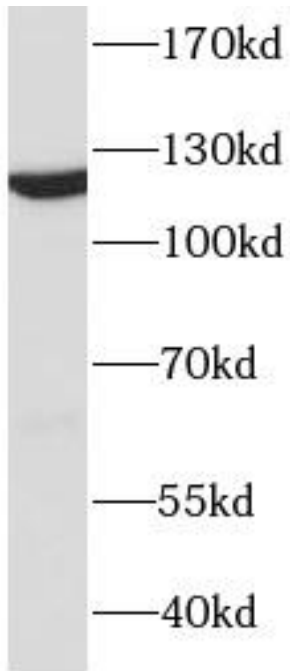
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HeLa cells were subjected to SDS PAGE followed by western blot with FNab02285(DDB1 antibody) at dilution of 1:1000