

**CUSABIO TECHNOLOGY LLC** 

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## DDB1 Monoclonal Antibody

Product CodeCSB-MA202984StorageUpon receipt, store at -20°C or -80°C. Avoid repeated freeze.ImmunogenPurified recombinant Human DDB1 protein fragments expressed in E. coli.Raised InMouseSpecies ReactivityHuman, Mouse, Rat, MonkeySpecificityThis antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.Tested ApplicationsELISA.WB;Recommended dilution:WB:1:500-1:5000RelevanceRequired 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 may recognize put-ins up the store of the nucleotide excision repair pathway (the NER pathway) to initiate DNA repair.The UV-DDB complex may recognize component of numerous distinct DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex set determined by tDB1-UL4-X-box) E3 ubiquitin- protein ligase complex is determined by the variable substrate recognition component of the repain-DCX(DDE2) also ubiquitinate histone H2A,histone H3 and histone H4 at sties of UV-induced DNA damage.The ubiquitination of TDS1 in repain-DCX(DDE2) also ubiquitinate histone H2A,histone H3 and histone H4 at sties of UV-induced DNA damage.The ubiquitination of TDS1 in repoins to relation-induced DNA damage.The ubiquitination of TDS1 in repoins to relation-induced DNA damage.The ubiquitination of TDS1 in repoins to relation-induced DNA damage.The ubiquitination of TDS1 in repoins the rubiquitination of CDKN1B/p27kip when associated with CUL4 and SKP2.FormLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH r.3. <th></th> <th></th>		
ImmunogenPurified recombinant Human DDB1 protein fragments expressed in E.coli.Raised InMouseSpecies ReactivityHuman,Mouse,Rat,MonkeySpecificityThis antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.Tested ApplicationsELISA,WB;Recommended dilution:WB:1:500-1:5000RelevanceRequired 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 distint 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-DD8-ROC1 and CUL4-DDB-RBX1) may ubiquitinate histone H2A,histone H3 and histone H4 at sites of UV-induced DNA damage and uring DNA-replication.DCX(RECC8) (the CSA complex) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2-dependent ubiquitination of TDF3 in response to radiation-induced DNA damage and uring DNA replication.DCX(RECC8) (the CSA complex) plays a role in the nocal by VPC and promote NER.PCX(DTL) plays arole in PCNA-dependent polyubiquitination of CDKN1B/p27kip when associated with CUL4 and SKP2.FormLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.Isotype<	Product Code	CSB-MA202984
Raised InMouseSpecies ReactivityHuman,Mouse,Rat,MonkeySpecificityThis antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.Tested ApplicationsELISA,WB;Recommended dilution:WB:1:500-1:5000RelevanceRequired 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),64 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-ROCX) may ubiquitinate histone H2A,histone H3 and histone H4 at sites of UV-induced DNA damage.The ubiquitination of Photopendent to ubiquitination of DNA repair.DCX(DB2) also biquitinates XPC, which may enhance DNA-binding by XPC and promote NER.DCX(DTL) plays a role in PCNA-dependent Dolyubiquitination of CDKN1B/p27kip when associated with CUL4 and SKP2.FormLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.IsotypeIgG2bClonalityMoncclonalAliasDamage 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 damag	Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Species ReactivityHuman,Mouse,Rat,MonkeySpecificityThis antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.Tested ApplicationsELISA,WB;Recommended dilution:WB:1:500-1:5000RelevanceRequired 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 ubiquitino of TPS3 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.FormLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.Isotype	Immunogen	Purified recombinant Human DDB1 protein fragments expressed in E.coli.
SpecificityThis antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.Tested ApplicationsELISA,WB;Recommended dilution:WB:1:500-1:5000RelevanceRequired 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 complex is determined by the variable 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 bitone H2A,bistone 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 repiari.DCX(ERC68) (the CSA complex) plays a role in transcription- coupled repair (TCR),May also play a role in ubiquitination of CDK1B/p27kip when associated with CUL4 and SKP2.FormLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.IsotypeIgG2bClonalityMonoclonalAlias	Raised In	Mouse
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7.3.   Isotype IgG2b   Clonality Monoclonal   Alias 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 1; DNA damage-binding protein 1; DNA damage-binding protein 1; DNA damage-binding protein 1;	Relevance	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.
Clonality Monoclonal   Alias 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 1; DNA damage-binding protein 1; HBV X-associated protein 1;	Form	
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Product Type Monoclonal Antibody	Alias	1; DDB 1; DDB p127 subunit; Ddb1; DDB1_HUMAN; DDBa; DNA damage binding protein 1; DNA damage-binding protein 1; DNA damage-binding protein 1; DNA damage-binding protein
	Product Type	Monoclonal Antibody

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Homo sapiens (Human) Immunogen Species