Datasheet for ABIN7150127

anti-DDB1 antibody (AA 741-943) (HRP)

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Overview

Quantity:	100 µg
Target:	DDB1
Binding Specificity:	AA 741-943
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDB1 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human DNA damage-binding protein 1 protein (741-943AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	DDB1
Alternative Name:	DDB1 (DDB1 Products)
Background:	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

Target Details

	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. Aliases: 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, 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, XPCe antibody, XPE antibody, XPE BF antibody, XPE binding factor antibody, XPE-BF antibody, XPE-binding factor antibody
UniProt:	Q16531
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.