

LF-PA40318 anti-DDB1

Product Name

anti-DDB1

Pack Size

50 ul

Description

Rabbit polyclonal to DDB1

Immunogen

Synthetic peptide (amino acids 198-213 of Human DDB1 (internal))

Clonality

Polyclonal Antibody

Host

Rabbit

Isotype

IgG

Cross Reactivity

Hu

Application

E (1:2000~1:10000)
WB (1:500~1:1000)
IP
IHC-P (Min: 1:500)

Concentration

85 mg/ml

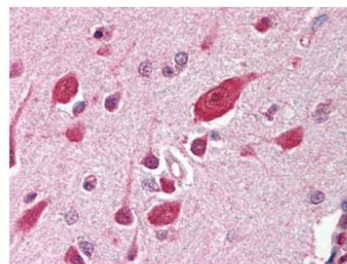
Research Area

[Cell Biology](#)

Function

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

Image



IMMUNOHISTOCHEMICAL ANALYSIS of brain, cortex (Formalin-Fixed Paraffin-Embedded)

transcription-coupled repair (TCR). May also play a role in ubiquitination of CDKN1B/p27kip when associated with CUL4 and SKP2.

Cellular Location

Cytoplasm Nucleus

Database Link

SwissProt : [Q16531](#)

Composition

0.01% sodium azide

Storage

Aliquot and store at -20°C. Avoid cycles of freezing and thawing
