

DDB1 Monoclonal Antibody

Catalog No: #27204

Package Size: #27204-1 50ul #27204-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

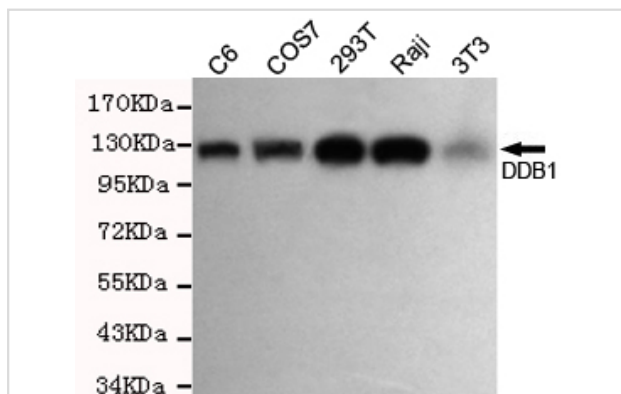
Description

| | |
|-----------------------|--|
| Product Name | DDB1 Monoclonal Antibody |
| Host Species | Mouse |
| Clonality | Monoclonal |
| Clone No. | 8E10-B8-E9 |
| Isotype | IgG2b |
| Applications | WB |
| Species Reactivity | Hu Ms Rt Mk |
| Specificity | This antibody detects endogenous levels of DDB1 and does not cross-react with related proteins. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Purified recombinant human DDB1 protein fragments expressed in E.coli. |
| Target Name | DDB1 |
| Other Names | 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 a; HBV X-associated protein 1; |
| Accession No. | Uniprot: Q16531 Gene ID: 1642 |
| SDS-PAGE MW | 127kd |
| Formulation | Ascites |
| Storage | store at -20 ^o C |

Application Details

Western blotting: 1:1500

Images



Western blot detection of DDB1 antibody in C6, COS7, 293T, Raji and 3T3 cell lysates using DDB1 antibody (1:1500 diluted). Predicted band size: 127KDa. Observed band size: 127KDa.

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.