## DDB1 Conjugated Monoclonal Antibody

Catalog No: #C27204

Description



 Package Size:
 #C27204-AF350 100ul
 #C27204-AF405 100ul
 #C27204-AF488 100ul

 #C27204-AF555 100ul
 #C27204-AF594 100ul
 #C27204-AF647 100ul

 #C27204-AF680 100ul
 #C27204-AF750 100ul
 #C27204-Biotin 100ul

Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Product Name	DDB1 Conjugated Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Specificity	This antibody detects endogenous levels of DDB1 and does not cross-react with related proteins.
Immunogen Description	Purified recombinant human DDB1 protein fragments expressed in E.coli.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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.	Swiss-Prot#: Q16531NCBI Gene ID:1642
Uniprot	Q16531
GenelD	1642;
Excitation Emission	AF350: 346nm/442nm
	AF405: 401nm/421nm
	AF488: 493nm/519nm
	AF555: 555nm/565nm
	AF594: 591nm/614nm
	AF647: 651nm/667nm
	AF680: 679nm/702nm
	AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## **Application Details**

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250 AF405 conjugated: most applications: 1: 50 - 1: 250 AF488 conjugated: most applications: 1: 50 - 1: 250 AF555 conjugated: most applications: 1: 50 - 1: 250 AF594 conjugated: most applications: 1: 50 - 1: 250 AF647 conjugated: most applications: 1: 50 - 1: 250 AF680 conjugated: most applications: 1: 50 - 1: 250 AF750 conjugated: most applications: 1: 50 - 1: 250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000 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