

DDB2 Antibody

Catalog No: #32469

Package Size: #32469-1 50ul #32469-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

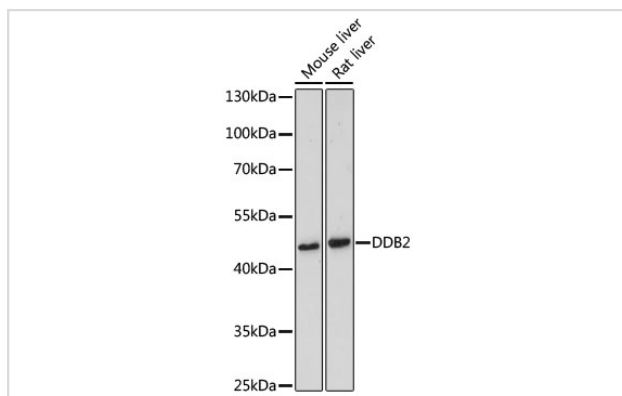
Description

Product Name	DDB2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total DDB2 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human DDB2.
Target Name	DDB2
Other Names	DDBB; FLJ34321; UV-DDB2;
Accession No.	Swiss-Prot:Q92466NCBI Gene ID:1643
Uniprot	Q92466
GeneID	1643;
SDS-PAGE MW	48KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

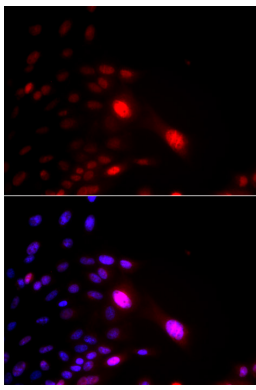
Application Details

WB \square 1:500 - 1:2000 IF \square 1:50 - 1:200

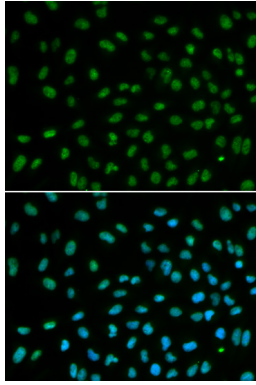
Images



Western blot analysis of extracts of various cell lines, using DDB2 at 1:500 dilution.



Immunofluorescence analysis of U2OS cells using DDB2 .
Blue: DAPI for nuclear staining. DNA damage by a UV-A laser.



Immunofluorescence analysis of MCF-7 cells using DDB2 .
Blue: DAPI for nuclear staining.

Background

Damaged DNA-Binding Protein (DDB) consists of a 127 kDa subunit (DDB-1) and a 48 kDa subunit (DDB-2) that contribute to the formation of the UV-damaged DNA-binding protein complex (UV-DDB) (1-3). In conjunction with CUL4A and ROC-1, the UV-DDB complex forms an E3 ubiquitin ligase that recognizes a broad spectrum of DNA lesions such as cyclobutane pyrimidine dimers, 6-4 photoproducts, apurinic sites and short mismatches. The complex polyubiquitinates components of the nucleotide excision repair pathway (4-6). Loss of DDB activity has been identified in a subset of xeroderma pigmentosum complementation group E (XP-E) patients and has been linked to the deficient repair of cyclobutane pyrimidine dimers in cells derived from these patients (7-10).

Note: This product is for in vitro research use only