

DDB2 Antibody

Catalog No: #32469

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

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

Description

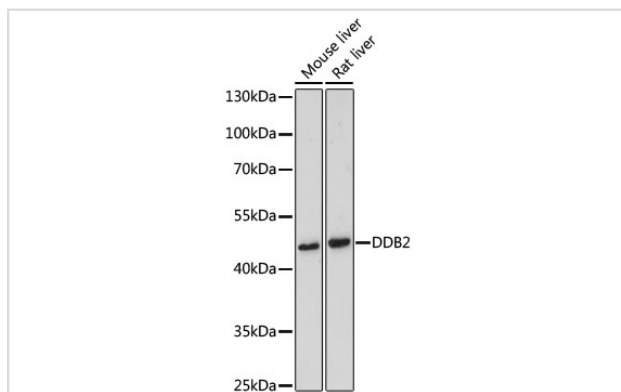
Product Name	DDB2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total DDB2 protein.
Immunogen Type	Recombinant 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
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

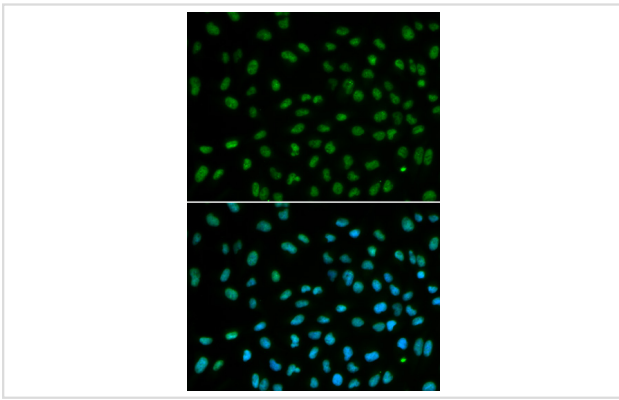
WB 1:500 - 1:2000

IF 1:50 - 1:200

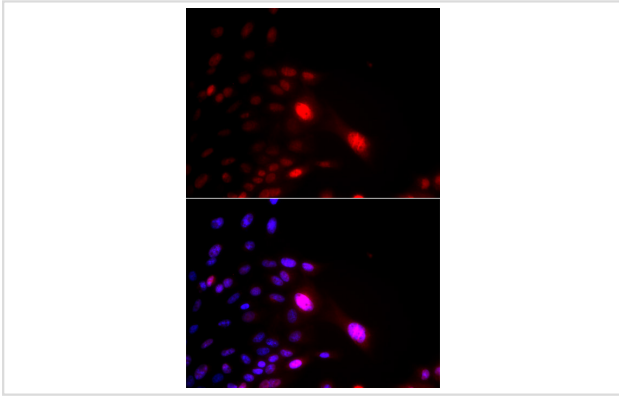
Images



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



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



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

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 and is not intended for use in humans or animals.