## DDB1 antibody (other name: DDBA, XAP1, XPE-BF, XPE, XPCE, UV-DDB1)

### Cat. No. C15200221

**Type:** Monoclonal

**Source:** Mouse

**Lot:** 001-11

**Size:** 50 µl

**Concentration:** 1 µg/µl

**Specificity:** Human: positive
Other species: not tested

**Purity:** Protein A purified monoclonal antibody in PBS containing 0.05% azide.

**Storage:** Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

**Precautions:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Description:** Monoclonal antibody raised in mouse against human DDB1 (Damage-Specific DNA Binding Protein 1) using a KLH-conjugated synthetic peptide containing a sequence from the C-terminal part of the protein.

## Applications

| Applications | Suggested dilution | References |
| --- | --- | --- |
| Western blotting | 1:500 | Fig 1 |

## Target description

DDB1 (UniProt/Swiss-Prot entry Q16531) together with DDB2 forms the heterodimeric DNA damage-binding (DDB) complex. This protein complex binds to DNA following UV damage and functions in nucleotide-excision repair. The DDB complex probably recognizes UV-induced DNA damage and recruits proteins of the nucleotide excision repair (NER) pathway to initiate DNA repair. DDB also mediates the ubiquitylation of histones H3 and H4, which facilitates the cellular response to DNA damage. Defective activity of the DDB complex causes XPE (xeroderma pigmentosum complementation group E), an autosomal recessive disorder characterized by photosensitivity and early onset of carcinomas.
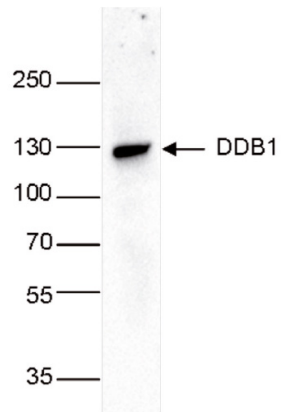
# Results



**Figure 1. Western blot analysis using the Diagenode monoclonal antibody directed against DDB1**

Whole cell extracts from human HeLa cells (25 µg) were analysed by Western blot using the Diagenode antibody against DDB1 (Cat. No. C15200221) diluted 1:500 in PBS containing 10% milk. The position of the protein of interest (expected MW 127 kDa) is indicated on the right; the marker (in kDa) is shown on the left.