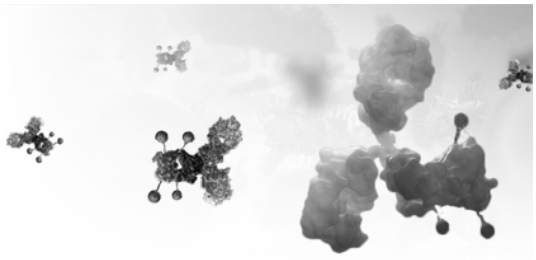

Anti-DDB1 (aa 1044-1140) polyclonal antibody (DPAB-DC719)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is the large subunit (p127) of the heterodimeric DNA damage-binding (DDB) complex while another protein (p48) forms the small subunit. This protein complex functions in nucleotide-excision repair and binds to DNA following UV damage. Defective activity of this complex causes the repair defect in patients with xeroderma pigmentosum complementation group E (XPE) - an autosomal recessive disorder characterized by photosensitivity and early onset of carcinomas. However, it remains for mutation analysis to demonstrate whether the defect in XPE patients is in this gene or the gene encoding the small subunit. In addition, Best vitelliform mascular dystrophy is mapped to the same region as this gene on 11q, but no sequence alternations of this gene are demonstrated in Best disease patients. The protein encoded by this gene also functions as an adaptor molecule for the cullin 4 (CUL4) ubiquitin E3 ligase complex by facilitating the binding of substrates to this complex and the ubiquitination of proteins.
Immunogen	DDB1 (NP_001914, 1044 a.a. ~ 1140 a.a) partial recombinant protein with GST tag. The sequence is SESWYNLLLDMQNRLNKVIKSVGKIEHSFWRSFHTERKTEPATGFIDGDLIESFLDISRP KMQEVVANLQYDDGSGMKREATADDLIKVVEELTRIH
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DDB1 damage-specific DNA binding protein 1, 127kDa [Homo sapiens (human)]
Official Symbol	DDB1
Synonyms	DDB1; damage-specific DNA binding protein 1, 127kDa; XPE; DDBA; XAP1; XPCE; XPE-BF; UV-DDB1; DNA damage-binding protein 1; XAP-1; UV-DDB 1; DDB p127 subunit; XPE-binding factor; HBV X-associated protein 1; DNA damage-binding protein a; UV-damaged DNA-binding factor; UV-damaged DNA-binding protein 1; xeroderma pigmentosum group E-complementing protein;
Entrez Gene ID	1642
Protein Refseq	NP_001914
UniProt ID	Q16531
Chromosome Location	11q12-q13
Pathway	Cul4-DDB1-CSA complex; Cul4-DDB1-DDB2 complex; DNA Repair; Formation of incision complex in GG-NER
Function	DNA binding; contributes_to damaged DNA binding; protein binding;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221