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Anti-p48-DDB2 Antibody

Catalog Number: A01430

About DDB2

DDB2 is also known as Damage-specific DNA binding protein 2, DDB p48 subunit, DDBb, UV-damaged DNA-binding protein 2 and UV-DDB 2. The DDB2 gene encodes the small subunit (p48) of DNA damage-binding protein, which is a heterodimer, composed of a large (p127 DDB1) and a small subunit. The DDB2 subunit appears to be required for DNA binding. This nuclear protein functions in nucleotide-excision repair resulting from UV-damaged DNA by binding to pyrimidine dimers. Its defective activity causes the repair defect in the patients with xeroderma pigmentosum complementation group E (XPE). XP-E is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. However, it remains for mutation analysis to demonstrate whether the defect in XPE patients is in this gene or the gene encoding the large subunit.

Overview

Product Name	Anti-p48-DDB2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-p48-DDB2 Antibody (Catalog # A01430). Tested in IP, WB applications. This antibody reacts with Human.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q92466

Technical Details

Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 419-427 of Human DDB2 (C-terminal) coupled to KLH.
Predicted Reactive Species	Canine, Equine
Isotype	Antiserum
Form	Liquid (sterile filtered)

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Concentration	85 mg/mL by Refractometry
Purification	This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human DDB2. Cross-reactivity with DDB2 from other sources is not known.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IHC: User optimized IP: User optimized WB: 1:500 - 1:1,000 This antibody reacts with human DDB2 tested by western blot and immunoprecipitation. The antibody immunoprecipitates in vitro translated protein and protein from cell lysates (using 293T, and others). Coimmunoprecipitation of related proteins has not been tested. A 47.8 kDa band corresponding to human DDB2 is detected. Most cell lines expressing DDB2 can be used as a positive control. Researchers should determine optimal titers for other applications.

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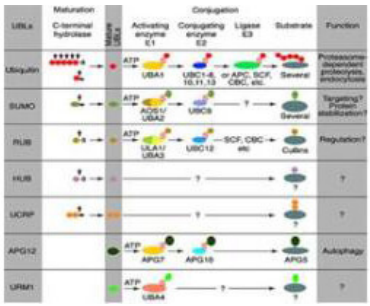
Anti-p48-DDB2 Antibody (A01430) Images



Most modifiers mature by proteolytic processing from inactive precursors (a; amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thiolesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein) /CBC(cullin-2/elongin B/elonginC) -like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(ISG15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. Data contributed by S.Jentsch.

Anti-p48-DDB2 Antibody

For Research Use Only. Not for use in diagnostic procedures.