



Qty: 100 µg/200 µL

Mouse anti-DDB1

Catalog No. 37-6200

Lot No.

Mouse anti-DDB1

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 2B12D1

ISOTYPE: Mouse IgG₁.kappa

IMMUNOGEN

Recombinant human DDB1 protein.

SPECIFICITY

This antibody is specific for the ~130 kDa human DDB1 protein.

REACTIVITY

Reactivity has been confirmed with human HeLa cells.

Sample	Immuno-precipitation (native)	ELISA (Native)	Western Blotting
Human	+++	ND	+++
Immunogen	ND	+++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation: 5-10 µg/reaction

Western Blotting: 1-5 µg/mL

ELISA: 0.1-1.0 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI376200

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BACKGROUND

DNA damage binding protein (DDB) is a heterodimer that functions in DNA repair, and is associated with the DNA repair deficiency disease xeroderma pigmentosum (XP)⁽¹⁻³⁾. The damaged DNA binding function of DDB requires both DDB1 (p125, 127 kDa) and DDB2 (p48, 48 kDa) subunits. When the subunits of DDB are expressed individually, p48 localized in the nucleus and p125 localized in the cytoplasm. Co-expression of p125 with p48 resulted in an increased accumulation of p125 in the nucleus, indicating that p48 plays a critical role in the nuclear localization of p125.

REFERENCES

1. Dualan R, et al. *Genomics* 29:62-69, 1995.
2. Hwang BJ, et al. *Mol Cell Biol* 18(7):4391-4399, 1998.
3. Chu G, et al. *Science* 242(4878):564-567, 1988.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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