



Qty: 100 µL

Mouse anti-DDB1

Catalog No. 39-9901

Lot No. See product label

Exp. Date: See product label

Mouse anti-DDB1

FORM

This monoclonal antibody is supplied as a 100 µL aliquot of mouse ascites containing 0.1%NaN₃.

CLONE: ZD001

ISOTYPE: Mouse IgG1-kappa

IMMUNOGEN

Recombinant protein encompassing the C-terminal region of the human DDB1 protein, which is 99% homologous to mouse and rat and 90% homologous to *Drosophila*

SPECIFICITY

This antibody is specific for the DDB1 (DNA damage binding protein 1) protein. On Western blots, it identifies the target band at ~127 kDa.

REACTIVITY

Reactivity has been confirmed with human HeLa, mouse NIH3T3, rabbit reticulocyte, and *Drosophila* S2 cell lysates. Based on amino acid sequence homology, reactivity with rat is expected.

Sample	ELISA	Immuno-precipitation (native)	Western Blotting
Human	ND	++	+++
Mouse	ND	ND	+++
Rabbit	ND	ND	++
Drosophila	ND	ND	+++
Rat	ND	ND	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.

ELISA: 1:1000
Immunoprecipitation: 10 µL/IP reaction
Western Blotting: 1:1000

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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(Rev 02/10) DCC-10-0384

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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 localizes to the nucleus and p125 localizes to 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 & Chang E. *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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Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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