



**Qty:** 100 µg/200 µL

**Mouse anti-Ubc13**

For Research Use Only

**Catalog No.** 37-1100

**Lot No.**

## Mouse anti-Ubc13

### INTENDED USE

For Research Use Only.

### 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:** 4E11

**ISOTYPE:** Mouse IgG<sub>1</sub>-kappa

### IMMUNOGEN

Recombinant human Ubc13.

### SPECIFICITY

This antibody is specific for the ~21 kDa Ubc13 protein.

### REACTIVITY

Reactivity has been confirmed with human HepG2 cell lysates, mouse NIH 3T3 cells, and rat Rat2 fibroblasts.

Sample	Western Blotting	ELISA	Immunofluorescence
Human	+++	ND	++
Mouse	ND	ND	++
Rat	+++	ND	++
Immunogen	N/A	++	N/A

(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.

**Immunofluorescence :** 1-5 µg/mL

**Western Blotting :** 1-3 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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## BACKGROUND

The Ubc13 protein was first identified for its unique role in ubiquitin chain assembly at the Lys63 residue of ubiquitin, rather than the conventional Lys48 site.<sup>1</sup> Ubc13, which acts as an E2 ubiquitin-conjugating enzyme, must first form a complex with its E2 partner, Mms2, for enzymatic activity.<sup>1</sup> Mms2 belongs to a family of UEV (ubiquitin-conjugating enzyme variant) proteins; Ubc13/UEV complexes are involved in error-free DNA postreplication repair (PRR) in yeast and in the NFκB signaling pathway in humans.<sup>2,3</sup>

## REFERENCES

1. Brusky J, et al. *Curr Genet* 37(3):168-173, 2000.
2. Ashley C, et al. *Gene* 285(1-2):183-191, 2002.
3. McKenna S, et al. *J Biol Chem* 276(43):40120-40126, 2001.

## RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-Mms2	2H11	37-1200
Mouse anti-UBC3	2E3B5	32-2000
Rabbit anti-UBC3	HC34	71-9900
Mouse anti-Ubiquitin	Ubi-1	13-1600
Rabbit anti-Cdc14A	ZMD.231	34-8100
Rabbit anti-Cdc14B	ZMD.239	34-8900
Rabbit anti-Cdc34	ZMD.09	34-2700
Mouse anti-RAD17	1C6/2	35-6400
Mouse anti-RAD51	3C10	35-6500
Rabbit anti-NFκB (p50)	ZK50	51-3500
Mouse anti-NFκB (p65)	2A12A7	33-9300
Rabbit anti-NFκB (p65)	P65C	51-0500
Protein A	Sepharose® 4B	10-1041
Rec Protein G	Sepharose® 4B	10-1241

\*PAD: Polyclonal Antibody Designation

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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