



Qty: 1 mL

Mouse anti-Emi1

Catalog No. 37-6600

Lot No.

## Mouse anti-Emi1

### FORM

This monoclonal antibody is supplied as a 1 mL aliquot of tissue culture supernatant containing 0.1% sodium azide.

**CLONE:** 3D2D6

**ISOTYPE:** Mouse IgG2a-kappa

### IMMUNOGEN

Synthetic peptide derived from the C-terminal region of human Emi1 (early mitotic inhibitor 1, Fbx5) protein

### SPECIFICITY

This antibody is specific for the C-terminal region of the Emi1 protein. On Western blots, it identifies the target band at ~55 kDa.

### REACTIVITY

Reactivity has been confirmed with human HEK293 cell lysates. Based on amino acid sequence homology, this antibody reactivity with mouse and rat is also expected.

Sample	ELISA	Western Blotting
Human	ND	+++
Immunogen	+++	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:** 1:100 - 1:1000  
**Western Blotting:** 1:30 - 1:100

### 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**

Early mitotic inhibitor 1 (Emi1) regulates mitosis by inhibiting the anaphase promoting complex/cyclosome (APC) during S and G2 phase.<sup>1</sup> Emi1, also known as F box only protein 5 (Fbx5), is a conserved protein containing a zinc-binding region essential for APC inhibition.<sup>1,2</sup> Emi1 inhibits the APC(Cdc20) ubiquitination complex by binding its substrate-binding region and allowing accumulation of cyclin B.<sup>1,4</sup> Emi1 also functions to promote cyclin A accumulation and S phase entry in somatic cells by inhibiting the APC(Cdh1) complex.<sup>3,4</sup>

**REFERENCES**

1. Reimann JD, et al. *Cell* 105:645-655, 2001.
2. Reimann JD, et al. *Genes Dev* 15:3278-3285, 2001.
3. Reimann JD, et al. *Nature* 416:850-854, 2002.
4. Hsu JY, et al. *Nat Cell Biol* 4: 358-366, 2002.

**RELATED PRODUCTS**

<b>Product</b>	<b>Conjugate</b>	<b>Cat. No.</b>
Protein A	Sepharose <sup>®</sup> 4B	10-1041
rec-Protein G	Sepharose <sup>®</sup> 4B	10-1241

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

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