

Mouse Anti-EMI1 (Early Mitotic Inhibitor-1) [EMI1/1176]: MC0040, MC0040RTU7

Intended Use: For Research Use Only

Description: It recognizes a 56kDa protein, which is identified as Early Mitotic Inhibitor-1 (EMI1). It regulates mitosis by inhibiting the anaphase promoting complex/cyclosome (APC). Emi1 is a conserved F box protein containing a zinc-binding region essential for APC inhibition. The Emi1 protein functions to promote cyclin A accumulation and S phase entry in somatic cells by inhibiting the APC complex. At the G1-S transition, Emi1 is transcriptionally induced by the E2F transcription factor. Emi1 overexpression accelerates S-phase entry and can override a G1 block caused by overexpression of Cdh1 or the E2F-inhibitor p105 retinoblastoma protein (pRb). Depleting cells of Emi1 through RNA interference prevents accumulation of cyclin A and inhibits S phase entry.

Specifications

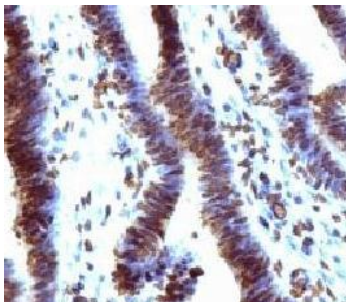
Clone: EMI1/1176
 Source: Mouse
 Isotype: IgG2a/k
 Reactivity: Human
 Immunogen: Recombinant fragment of human EMI1 protein aa 1-250
 Localization: Nucleus
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
EMI1 (Early Mitotic Inhibitor-1) Concentrated	MC0040	1 ml
EMI1 (Early Mitotic Inhibitor-1) Prediluted	MC0040RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Ovarian carcinoma, HeLa, 293 or HepG2 cells
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human ovarian carcinoma stained with anti- EMI1 using DAB

References:

1. Clear cell carcinomas of the ovary: a multi-institutional study of 129 cases in Korea with prognostic significance of Emi1 and Galectin-3. Min KW, et al. Gynecologic Pathology Study Group of the Korean Society of Pathologists. Int J Gynecol Pathol. Jan;32(1):3-14, 2013.
2. Emi1 is a mitotic regulator that interacts with Cdc20 and inhibits the anaphase promoting complex. Reimann, J.D., et al. Cell 105: 645-655, 2001.