

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

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

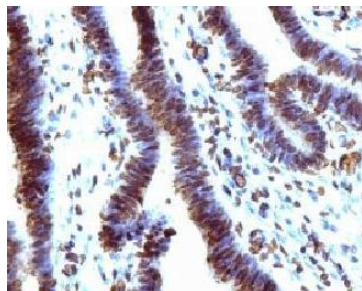
Clone: EMI1/1176
Source: Mouse
Isotype: IgG2a/k
Reactivity: Human
Localization: Nucleus
Formulation: Protein A/G purified antibody from bioreactor concentrate. Prepared in 10mM PBS with 0.2% BSA and < 0.09% sodium azide (NaN₃)
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC, Flow Cyt., ICC/IF, WB
Package:

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

IHC Procedure*

Positive Control Tissue: HeLa, 293 or HepG2 cells. Ovarian carcinoma
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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.

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