

## EMI1 (Early Mitotic Inhibitor-1) Antibody

Mouse Monoclonal Antibody [Clone EMI1/1176]

Catalog No	Format	Size
26271-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
26271-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
26271-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

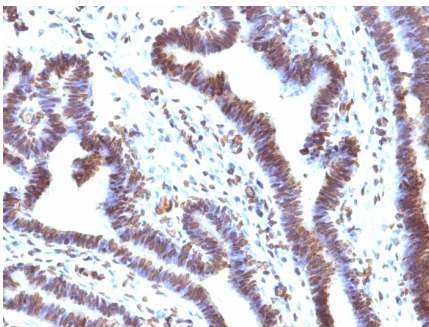
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

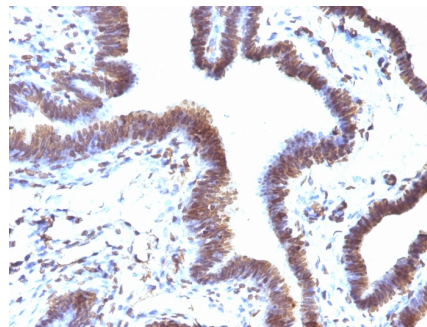
<b>Clone</b>	EMI1/1176
<b>Gene Name</b>	FBXO5
<b>Immunogen</b>	Recombinant fragment (203 amino acid residues between aa 1-250) of human EMI1 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2a / Kappa
<b>Mol. Weight of Antigen</b>	56kDa
<b>Cellular Localization</b>	Cytoplasm, Cytoskeleton, Nucleus, Spindle
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	293 or HepG2 cells. Ovarian carcinoma., HeLa

*\*Optimal dilution for a specific application should be determined.*

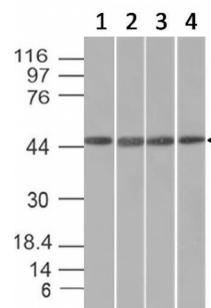
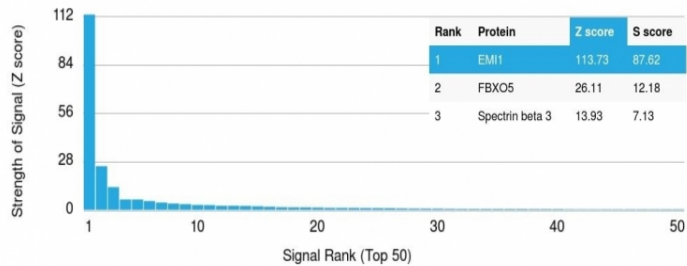
### Product Images for EMI1 (Early Mitotic Inhibitor-1) Antibody



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with EMI1 Mouse Monoclonal Antibody (EMI1/1176).



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with EMI1 Mouse Monoclonal Antibody (EMI1/1176).



Western Blot of HeLa, HepG2, HEK293 and K562 cell lysates with EMI1 Mouse Monoclonal Antibody (EMI1/1176).

Analysis of Protein Array containing more than 19,000 full-length human proteins using EMI1 Mouse Monoclonal Antibody (EMI1/1176). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Specificity & Comments

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Nuclear Marker