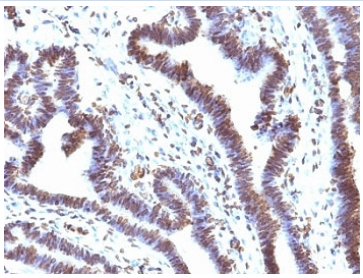
EMI1 Antibody [clone EMI1/1176] (V2527)

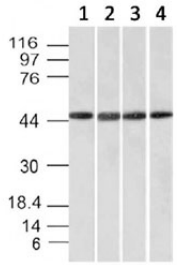
Catalog No.	Formulation	Size
V2527-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2527-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2527SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2527IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

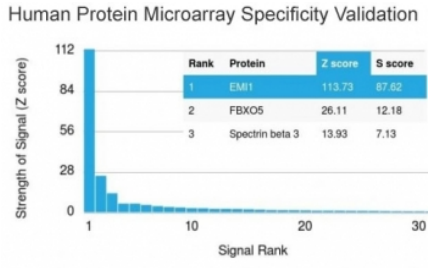
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	EMI1/1176
Purity	Protein G affinity chromatography
UniProt	Q9UKT4
Localization	Nuclear
Applications	Western Blot : 1-2ug/ml for 60 min at RT Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This EMI1 antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with EMI1 antibody (clone EMI1/1176).



Western blot testing of cell line lysates: 1) HeLa, 2) HepG2, 3) 293, 4) K562 with EMI1 antibody. Predicted molecular weight: 50/45 kDa (isoforms 1/2).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using EMI1 antibody (clone EMI1/1176). These results demonstrate the foremost specificity of the EMI1/1176 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Early Mitotic Inhibitor-1 regulates mitosis by inhibiting the anaphase promoting complex/cyclosome (APC). It is a conserved F box protein containing a zinc-binding region essential for APC inhibition. The 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. 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.

Application Notes

Optimal dilution of the EMI1 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant fragment (203 amino acid residues between aa 1-250) from the human protein was used as the immunogen for the EMI1 antibody.

Storage

Store the EMI1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).