

## Product Information

### Anti-PPM1M (C-terminal)

produced in rabbit, affinity isolated antibody

Product Number **SAB4200169**

### Product Description

Anti-PPM1M (C-terminal) is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human PPM1M (GeneID: 132160) conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-PPM1M (C-terminal) recognizes human PPM1M. The antibody may be used in several immunochemical techniques including immunoblotting (~33 kDa) and immunoprecipitation. Detection of the PPM1M band by immunoblotting is specifically inhibited with the immunizing peptide.

PPM1M (also known as Protein phosphatase 2C isoform eta, PP2C-eta, and PP2CE) is a novel member of the protein serine/threonine phosphatase 2C family. At least 14 distinct PP2C family members have been identified in mammalian cells, all sharing six conserved structural motifs. PPM1M is ubiquitously expressed and mainly localized in the nucleus when overexpressed in HEK293-IL-1RI cells.<sup>1</sup> It was reported that a variety of murine tissues express an alternative spliced variant of PPM1M, which is localized in the cytoplasm. Studies on the function of this variant indicate that it suppresses IL-1-induced NF- $\kappa$ B activation through dephosphorylation of IKK $\beta$ .<sup>2</sup>

### Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~1.0 mg/mL

### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

Store at -20 °C. For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

### Product Profile

Immunoblotting: a working antibody concentration of 4-8  $\mu$ g/mL is recommended using whole extracts of HEK-293T cells overexpressing human PPM1M.

Immunoprecipitation: a working amount of 2.5-5.0  $\mu$ g is recommended using lysates of HEK-293T cells overexpressing human PPM1M.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

### References

1. Komaki, K., et al., *Biochim. Biophys. Acta*, **1630**, 130-137 (2003).
2. Henmi, T., et al., *Biochem. J.*, **423**, 71-78 (2009).

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