

## Product Information

### Monoclonal Anti-Reptin, Clone 2E9-5

produced in mouse, purified immunoglobulin

Catalog Number **SAB4200115**

#### Product Description

Monoclonal Anti-Reptin (mouse IgG1 isotype) is derived from the hybridoma 2E9-5 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a human Reptin (GeneID: 10856) fusion protein. The corresponding sequence differs by one amino acid in mouse. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Reptin recognizes human, mouse and rat Reptin. The antibody may be used in several immunochemical techniques including immunoblotting (~51 kDa).<sup>1</sup>

Pontin and Reptin are two related members of the AAA+ (ATPases associated with diverse cellular activities) family of ATPases. Pontin and Reptin share some homology to the bacterial RuvB gene, a DNA helicase essential for homologous recombination and DNA double-strand break repair. Pontin and Reptin are associated with several chromatin-remodeling complexes and are involved in multiple biological processes including chromatin remodeling, DNA damage repair, telomerase activity, transcriptional regulation, apoptosis and cancer metastasis. Both proteins are also involved in cellular transformation by  $\beta$ -catenin and c-myc through their chromatin-remodeling function.<sup>1-4</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

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at -20 °C 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 dilution samples should be discarded if not used within 12 hours.

#### Product Profile

Immunoblotting: a working antibody concentration of 0.5-1.0  $\mu$ g/mL is recommended using a whole extract of human MCF-7 cells.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

#### References

1. Weiske, J. and Huber, O., *J. Cell Sci.*, **118**, 3117-3129 (2005).
2. Gallant, P., *Trends Cell Biol.*, **17**, 187-192 (2007).
3. Huber, O., et al., *Cancer Res.*, **68**, 6873-6876 (2008).
4. Jha, S., and Dutta, A., *Mol. Cell*, **34**, 521-533 (2009).

ST,TD,KAA,PHC 04/10-1