

## Product Information

### Anti-LIN28 (N-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200554**

### Product Description

Anti-LIN28 (N-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the N-terminal region of human LIN28A (GeneID: 79727), conjugated to KLH. The corresponding sequence is identical in monkey and dog and differs by a single amino acid in rat and mouse. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-LIN28 (N-terminal) recognizes human and mouse LIN28. The antibody may be used in various immunochemical techniques including immunoblotting (~25 kDa) and immunoprecipitation. Detection of the LIN28 band by immunoblotting is specifically inhibited by the immunizing peptide.

Lin28 is an evolutionarily conserved RNA-binding protein that plays important roles in timing of development, pluripotency and oncogenesis. As a multi-functional protein Lin28 acts as a post-transcriptional regulator of the biogenesis of a group of miRNAs. These include the let-7 family miRNAs shown to participate in the regulation of expression of genes involved in cell growth and differentiation. Lin28 binds to the loop regions of miRNA precursors, leading to inhibition of their processing into mature miRNAs, and/or induction of uridylation of the precursors that are subsequently degraded.<sup>1</sup> Nevertheless, Lin28 also exerts biological effects that are independent of let-7 miRNAs.<sup>2</sup> Lin28 was also found to act as a translational modulator, probably by recruiting RNA helicase A (RHA) as a co-factor to enhance the translation of Lin28 target mRNAs.<sup>3</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

For continuous use, store at 2-8 °C for up to one month. For extended storage freeze in working aliquots. Repeated freezing and thawing 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 concentration of 1-2 µg/mL is recommended using whole extracts of human NT2/D1 cells.

A working concentration of 4-8 µg/mL is recommended using whole extracts of mouse P19 cells.

Immunoprecipitation: a working amount of 1-2 µg is recommended using lysates of human NT2/D1 cells.

**Note**: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

### References

1. Viswanathan, S.R., and Daley, G.Q., *Cell*, **140**, 445-449 (2010).
2. Balzer, E., et al., *Development*, **137**, 891-900 (2010).
3. Jin, J., et al., *Nucl. Acids Res.*, **39**, 3724-3734 (2011).

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