

## Product Information

## Anti-TRBP2

Produced in rabbit, ~ 1.0 mg/mL, affinity isolated antibody, buffered aqueous solution

**SAB4200111**

### Product Description

Anti-TRBP2 is developed in rabbit using as immunogen a synthetic peptide corresponding to amino acids 183-195 of human TRBP2 (Gene ID: 6895) conjugated to KLH. The corresponding sequence is identical in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-TRBP2 recognizes human TRBP2. The antibody may be used in several immunochemical techniques including immunoblotting (~ 30 kDa) and immunofluorescence. Detection of the TRBP2 band by immunoblotting is specifically inhibited with the immunizing peptide.

TRBP (also known as TARBP2, TAR RNA-binding protein 2, and Trans-activation-responsive RNA-binding protein) was isolated by its ability to bind and activate the human immunodeficiency (HIV)-1 TAR RNA.<sup>1</sup> Later it was shown to play a role in spermatogenesis, cell growth, oncogenesis, and viral replication.<sup>2-5</sup> TRBP exists in two isoforms, TRBP1 and TRBP2, where TRBP2 has 21 additional amino acids. It is composed of two dsRBDs, a KR-helix motif within dsRBD2, and a Medial domain that binds Merlin, Dicer, and PACT.<sup>7</sup> Studies have shown TRBP is a component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), composed of Dicer, EIF2C2/Ago2, and TARBP2.<sup>8</sup> Mice that carry a targeted disruption of the TARBP2 gene encoding TRBP2, have a growth defect, and are sterile and severely oligospermic.<sup>5</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 research 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, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is also 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 2-4 µg/mL is recommended using lysates of HEK-293T cells.

**Immunofluorescence:** a working antibody concentration of 2.5-5 µL/mL is recommended using paraformaldehyde fixed HeLa cells.

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

## References

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8. Chendrimada, T.P., et al., *Nature*, **436**, 740-744 (2005).

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