

Product Information

Anti-YY1

produced in rabbit, IgG fraction of antiserum

Catalog Number: **SAB4200302**

Product Description

Anti-YY1 is produced in rabbit using as immunogen a synthetic peptide corresponding to an Internal region of human YY1 (Gene ID: 7528), conjugated to KLH. The corresponding sequence is identical in rat. Whole serum is purified using protein A immobilized on agarose to provide the IgG fraction of antiserum.

Anti-YY1 recognizes human YY1. The antibody may be used in several immunochemical techniques including immunoblotting (~55 kDa). Detection of the YY1 band by immunoblotting is specifically inhibited by the immunizing peptide.

Yin Yang-1 gene (YY1) encodes a ubiquitous, conserved, multifunctional zinc-finger transcription factor and is a member of the Polycomb Group protein family. The YY1 protein regulates initiation, activation, or repression of transcription of a variety of genes required for cell growth, development, differentiation, or tumor suppression, depending upon the context in which it binds. The YY1 protein contains four C2H2-type zinc-finger motifs with two specific domains that characterize its function as activator or repressor. YY1 over expression is associated with cellular proliferation, resistance to apoptotic stimuli, tumorigenesis and metastatic potential.^{1,2}

Reagent

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

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, 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 dilution of 1:1,000-1:2,000 is recommended using lysates of HEK-293T cells over-expressing human YY1.

References

1. Gordon, S., et al., *Oncogene*, **25**, 1125-1142 (2005).
2. Castellano, G., et al., *Cell Cycle*, **9**, 1367-1372 (2009).

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