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Product Information

Anti- HPRT1 (N-terminal)
produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200292**

Product Description

Anti-HPRT1 (N-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the N-terminal region of human HPRT1 (GeneID: 3251), conjugated to KLH. The corresponding sequence is identical in mouse, rat, rabbit and monkey. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-HPRT1 (N-terminal) recognizes human, mouse, and rat HPRT1. The antibody may be used in various immunochemical techniques including immunoblotting (~25 kDa), immunoprecipitation and immunohisto-chemistry. Detection of the HPRT1 band by immunoblotting is specifically inhibited by the immunizing peptide.

HPRT1 (hypoxanthine phosphoribosyltransferase 1) is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. HPRT1 is a constitutively expressed housekeeping gene. Mutations in this gene result in Lesch-Nyhan syndrome or gout.[1-4]

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 2-4 µg/mL is recommended using whole extracts of rat Rat2 cells.

Immunoprecipitation: A working amount of 2.5-5.0 µg is recommended using lysates of human HEK-293 cells.

Immunohistochemistry: A working concentration of 10-20 µg/mL is recommended using biotin / ExtrAvidin®-Peroxidase staining of heat-retrieved formalin-fixed, paraffin-embedded mouse kidney sections.

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

References

1. Patel, P.I., et al., *Mol. Cell. Biol.*, **6**, 393-403 (1986).
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3. Jiralerspong, S., and Patel, P.I., *Proc. Soc. Exp. Biol. Med.*, **212**, 116-127 (1996).
4. Guibinga, G.H., et al., *Mol. Ther.*, **18**, 54-62 (2010).

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