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Product Information

Anti- CHD1 (C-terminal)
produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200588**

Product Description

Anti- CHD1 (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the C-terminal region of human CHD1 (GeneID: 1105), conjugated to KLH. The corresponding sequence is identical in monkey, dog and bovine CHD1 and differs by a single amino acid in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti- CHD1 (C-terminal) recognizes human and mouse CHD1. The antibody may be used in various immunochemical techniques including immunoblotting (~250 kDa) and immunofluorescence. Detection of the CHD1 band by immunoblotting is specifically inhibited by the immunizing peptide.

CHD1 (Chromodomain-helicase-DNA-binding protein 1) is an ATP-dependent chromatin-remodeling factor. The CHD family of proteins is characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. CHD genes alter gene expression possibly by modification of chromatin structure thus altering access of the transcriptional apparatus to its chromosomal DNA template. CHD1 is required for maintaining open chromatin and pluripotency in embryonic stem cells [1-3]

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 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 2.5-5.0 μg/mL is recommended using whole extracts of mouse P19 cells.

Immunofluorescence: a working concentration of 2.5-5.0 μg/mL is recommended using human HeLa cells.

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

References

1. Marfella, C.G, and Imbalzano, A.N., *Mutat. Res.*, **618**, 30-40 (2007).
2. Ho, L., and Crabtree, G.R., *Nature*, **463**, 474-484 (2010).
3. Hauk, G., and Bowman, G.D., *Curr. Opin. Struct. Biol.*, **21**, 719-727 (2011).

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