

Product Information

Anti-Chimerin β 2 antibody, Rat monoclonal
clone HAR 2E3, purified from hybridoma cell culture

Catalog Number **SAB4200059**

Product Description

Anti-Chimerin β 2 (rat IgG2a isotype) is derived from the hybridoma HAR 2E3 produced by the fusion of mouse myeloma cells (P3X63Ag8.653) and splenocytes from rat immunized with a fusion protein of full length human Chimerin β 2 (GeneID: 1124). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Anti-Chimerin β 2 recognizes human, monkey, bovine, mouse and rat Chimerin β 2. The product may be used in several immunochemical techniques including immunoblotting (~ 43 kDa) and immunocytochemistry.¹⁻²

Chimerin β 2 is a member of the chimerin family and encodes a protein with a phorbol-ester/DAG-type zinc finger, a Rho-GAP domain and an SH2 domain. This protein has GTPase-activating protein activity that is regulated by phospholipid binding. Binding of diacylglycerol (DAG) induces translocation of the protein from the cytosol to the Golgi apparatus membrane.³ The protein plays a role in the proliferation and migration of smooth muscle cells.⁴ Decreased expression of this gene is associated with high-grade gliomas and breast tumors, and increased expression of this gene is associated with lymphomas.⁵ Mutations in this gene have been associated with schizophrenia in men.

Reagent

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

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

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

Store at -20°C . For continuous use, store at $2-8^{\circ}\text{C}$ for up to one month. For extended storage, freeze at -20°C 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 dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 1.0-2.0 $\mu\text{g/mL}$ is recommended using Neuro-2a cell extracts.

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

Sensitive film is recommend using this product.

References

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4. Yang, C., and Kazanietz, M.G., *Biochem J.*, **403**, 1-12 (2007).
5. Yang, C., et al., *J. Biol. Chem.*, **280**, 24363-24370 (2005).
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RC,GG,TD,KAA,PHC 04/21-1