

Product Information

Anti-COG3

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200426**

Product Description

Anti-COG3 is produced in rabbit using as immunogen a peptide corresponding to an internal region of human COG3 (GeneID: 83548), conjugated to KLH. The corresponding sequence is identical in mouse, rat, monkey and bovine COG3. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-COG3 recognizes human, mouse and rat COG3. The antibody may be used in various immunochemical techniques including immunoblotting (~94 kDa). Detection of the COG3 band by immunoblotting is specifically inhibited by the immunizing peptide.

Conserved oligomeric Golgi complex 3 (COG3), also known as SEC34, is a member of the conserved oligomeric Golgi (COG) complex. COG complex, is an evolutionarily conserved multi-subunit protein complex that regulates membrane trafficking and maintenance of Golgi glycosylation machinery in eukaryotic cells. COG complex is composed of eight distinct subunits organized in two heterotrimeric groups, Cog2-Cog3-Cog4 and Cog5-Cog6-Cog7, which are linked by the dimeric group formed by Cog1 and Cog8.¹⁻³

COG3 is involved in ER-Golgi transport.⁴ COG3 depletion blocks vesicle-mediated Golgi retrograde trafficking in HeLa cells and results in the accumulation of COG complex-dependent vesicles in the cell cytoplasm.⁵

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 1-2 µg/mL is recommended using whole extracts of human HEK-293T, mouse NIH-3T3 and rat PC12 cells.

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

References

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3. Pokrovskaya, I.D., et al., *Glycobiology*, **21**, 1554-1569 (2011).
4. Loh, E. and Hong, W., *J Biol Chem.*, **277**, 21955-21961 (2002).
5. Zolov, S.N., and Lupashin, V.V., *J. Cell Biol.*, **168**, 747-759 (2005).

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