

Product Information

Anti-Golph3 (N-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200341**

Product Description

Anti-Golph3 (N-terminal) is produced in rabbit using as immunogen a peptide corresponding to the N-terminal region of human Golph3 (GeneID: 64083), conjugated to KLH. The corresponding sequence is identical in mouse, rat, monkey and bovine. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Golph3 (N-terminal) recognizes human and mouse Golph3. The antibody may be used in various immunochemical techniques including immunoblotting (~34 kDa), immunofluorescence and immunoprecipitation. Detection of the Golph3 band by immunoblotting is specifically inhibited by the immunizing peptide.

Golph3 (Golgi phosphoprotein 3), also known as Coat protein GPP34, is a peripheral membrane protein of the Golgi stack that localizes to the trans-Golgi network. Golph3 is conserved from yeast to human and has a role in Golgi trafficking and morphology by interacting with the unconventional myosin MYO18A, linking Golgi membranes to the actin cytoskeleton.^{1-2,3}

Golph3 is a phosphatidylinositol-4-phosphate (PtdIns(4)P) binding protein required for Golgi function.² *GOLPH3* gene was described as an oncogene that is commonly targeted for amplification in human cancer and in cancer cell lines.³⁻⁴ Furthermore, *GOLPH3* overexpression was correlated with hyperactivation of mTOR signaling, in human cells.³⁻⁴

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, 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 concentration of 1-2 µg/mL is recommended using whole extracts of human HeLa cells.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of human HeLa cells.

Immunofluorescence: a working concentration of 2.5-5.0 µg/mL is recommended using mouse 3T3 cells.

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

It is recommended to dilute the antibody in a dilution buffer containing 5% non-fat dry milk (NFDM).

References

1. Bell, A.W., et al., *J. Biol. Chem.*, **276**, 5152-5165 (2001).
2. Dippold, H.C., et al., *Cell*, **139**, 337-351 (2009).
3. Scott, K.L., et al., *Nature*, **459**, 1085-1090 (2009).
4. Abraham, R.T., *Pigment Cell Melanoma Res.*, **22**, 378-379 (2009).

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