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Product Information

Anti- COG8 (C-terminal)
produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200427**

Product Description

Anti- COG8 (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the C-terminal region of human COG8 (GeneID: 84342), conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti- COG8 (C-terminal) recognizes human COG8. The antibody may be used in various immunochemical techniques including immunoblotting (~70 kDa), immunoprecipitation and immunofluorescence. Detection of the COG8 band by immunoblotting is specifically inhibited by the immunizing peptide.

Conserved oligomeric Golgi complex 8 (COG8), also known as DOR1 or CDG2H, 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] Mutations in the COG8 gene cause congenital disorder of glycosylation, type IIh, a disease that is characterized by under-glycosylated serum proteins, and whose symptoms include severe psychomotor retardation, failure to thrive, seizures, and dairy and wheat product intolerance.[4-5]

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-293 cells.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of human HEK-293T cells.

Immunofluorescence: a working concentration of 0.5-1.0 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

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3. Pokrovskaya, I.D., et al., *Glycobiology*, **21**, 1554-1569 (2011).
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5. Foulquier, F., et al., *Hum. Mol. Genet.*, **16**, 717-730 (2007).

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