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# **Product Information**

# Anti-COG7 (N-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number SAB4200436

### **Product Description**

Anti-COG7 (N-terminal) is produced in rabbit using as immunogen a peptide corresponding to the N-terminal region of human COG7 (GeneID: 91949), conjugated to KLH. The corresponding sequence differs by one amino acid in mouse and rat COG7. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-COG7 (N-terminal) recognizes human, mouse and rat COG7. The antibody may be used in various immunochemical techniques including immunoblotting (~86 kDa). Detection of the COG7 band by immunoblotting is specifically inhibited by the immunizing peptide.

Conserved oligomeric Golgi complex 7 (COG7), also known as CDG2E, 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.<sup>1-3</sup> COG7 is involved in retrograde vesicular trafficking. Mutations in the COG7 gene cause congenital disorder of glycosylation, type IIe.<sup>4-6</sup>

### 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**

<u>Immunoblotting</u>: a working concentration of 2.5-5.0  $\mu$ g/mL is recommended using whole extracts of human HeLa, mouse NIH-3T3 or 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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