SANTA CRUZ BIOTECHNOLOGY, INC.

COG3 (E-19): sc-84067

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

COG3 is a member of a highly conserved multi-subunit oligomeric Golgi complex that is required for normal Golgi morphology and cellular localization. The oligomeric Golgi complex is integrated into the peripheral membrane of *cis*/medial Golgi cisternae. COG3 is a ubiquitous protein with highest expression found in pancreas and testis and lowest in lung. The complex is believed to act as a vesicle tethering element during intra-Golgi protein trafficking. Malfunctions of this complex can manifest as protein sorting disorders, glycosylation errors and Golgi disintegration. As such, COG3 and other members of the conserved oligomeric Golgi complex play an important role in proper functioning and localizing of resident Golgi glycosyltransferases and glycosidases.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COG3 (human) mapping to 13q14.13; Cog3 (mouse) mapping to 14 D3.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

COG3 (E-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of COG3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

COG3 (E-19) is recommended for detection of COG3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

COG3 (E-19) is also recommended for detection of COG3 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for COG3 siRNA (h): sc-105223, COG3 siRNA (m): sc-142452, COG3 shRNA Plasmid (h): sc-105223-SH, COG3 shRNA Plasmid (m): sc-142452-SH, COG3 shRNA (h) Lentiviral Particles: sc-105223-V and COG3 shRNA (m) Lentiviral Particles: sc-142452-V.

Molecular Weight of COG3: 94 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.