

# **COG4 Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7430b

## **Specification**

# COG4 Antibody (C-term) - Product Information

Application WB, IHC-P, FC,E

**Primary Accession 09H9E3** Other Accession Q3MHG0 Reactivity Human Predicted **Bovine** Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 89083 Antigen Region 757-785

# COG4 Antibody (C-term) - Additional Information

### **Gene ID 25839**

### **Other Names**

Conserved oligomeric Golgi complex subunit 4, COG complex subunit 4, Component of oligomeric Golgi complex 4, COG4

# Target/Specificity

This COG4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 757-785 amino acids from the C-terminal region of human COG4.

### **Dilution**

WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

# **Precautions**

COG4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### COG4 Antibody (C-term) - Protein Information





Name COG4

**Function** Required for normal Golgi function (PubMed: 19536132, PubMed: 30290151). Plays a role in SNARE-pin assembly and Golgi-to-ER retrograde transport via its interaction with SCFD1 (PubMed: 19536132).

#### **Cellular Location**

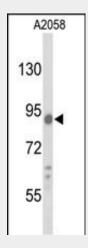
Cytoplasm, cytosol. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Mosty cytosolic, with about 5% membrane-bound.

# COG4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

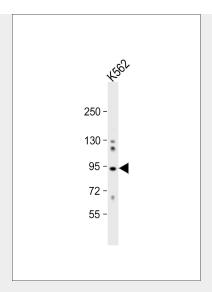
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## COG4 Antibody (C-term) - Images

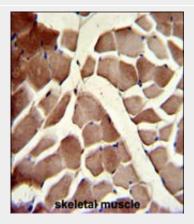


Western blot analysis of COG4 Antibody (C-term) (Cat.#AP7430b) in A2058 cell line lysates (35ug/lane). COG4 (arrow) was detected using the purified Pab.

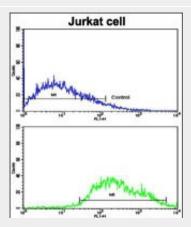




Anti-COG4 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 89 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human skeletal muscle with COG4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of jurkat cells using COG4 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## COG4 Antibody (C-term) - Background





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Multiprotein complexes are key determinants of Golgi apparatus structure and its capacity for intracellular transport and glycoprotein modification. Several complexes have been identified, including the Golgi transport complex (GTC), the LDLC complex, which is involved in glycosylation reactions, and the SEC34 complex, which is involved in vesicular transport. These 3 complexes are identical and have been termed the conserved oligomeric Golgi (COG) complex, which includes COG4.

# COG4 Antibody (C-term) - References

Whyte J.R., Munro S.Dev. Cell 1:527-537(2001) Ota T., Suzuki Y., Nishikawa T.Nat. Genet. 36:40-45(2004) Rikova K., Guo A., Zeng Q.Cell 131:1190-1203(2007)