

COG4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7430b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9H9E3
Other Accession	Q3MHG0
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17914
Calculated MW	89083
Antigen Region	757-785

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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=Mostly cytosolic, with about 5% membrane-bound.

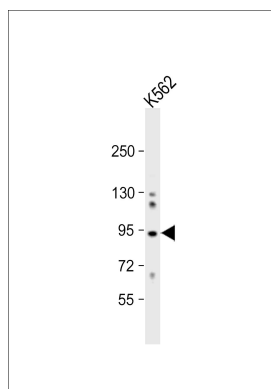
Background

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.

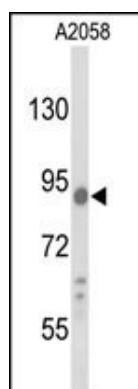
References

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)

Images

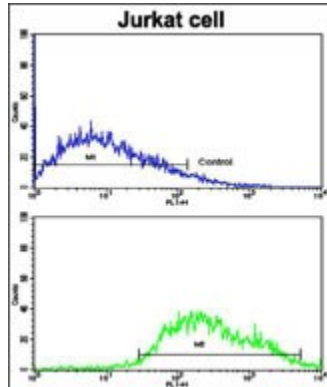
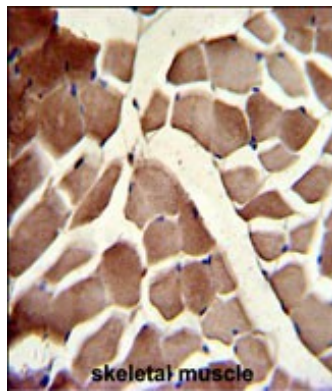


Anti-COG4 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 89 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.