10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COG2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9379a

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q14746
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17913
Calculated MW	83208
Antigen Region	96-124

Additional Information

Gene ID	22796
Other Names	Conserved oligomeric Golgi complex subunit 2, COG complex subunit 2, Component of oligomeric Golgi complex 2, Low density lipoprotein receptor defect C-complementing protein, COG2, LDLC
Target/Specificity	This COG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 96-124 amino acids from the N-terminal region of human COG2.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 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	COG2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COG2
Synonyms	LDLC

Function	Required for normal Golgi morphology and function.
Cellular Location	Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side

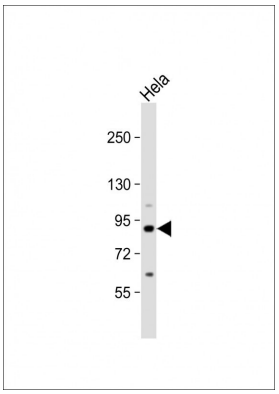
Background

COG2 encodes a subunit of the conserved oligomeric Golgi complex that is required for maintaining normal structure and activity of the Golgi complex. The encoded protein specifically interacts with the USO1 vesicle docking protein and may be necessary for normal Golgi ribbon formation and trafficking of Golgi enzymes.

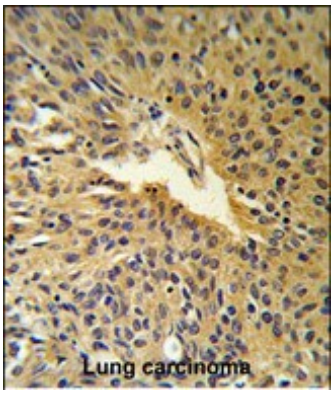
References

Edwards, T.L., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (5), 721-735 (2009)
Luke, M.M., et al. Stroke 40(2):363-368(2009)
Shiffman, D., et al. Arterioscler. Thromb. Vasc. Biol. 28(1):173-179(2008)
Sohda, M., et al. Traffic 8(3):270-284(2007)
Ungar, D., et al. Trends Cell Biol. 16(2):113-120(2006)

Images

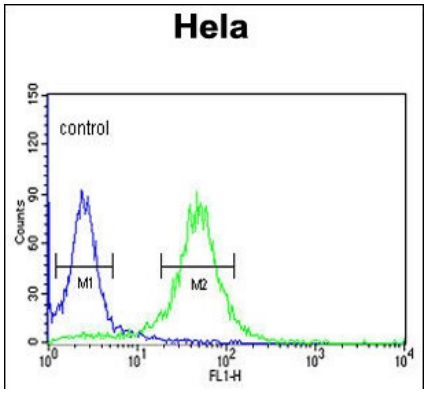


Anti-COG2 Antibody (N-term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



COG2 Antibody (N-term) (RB17913) IHC analysis in formalin fixed and paraffin embedded human Lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the COG2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

COG2 Antibody (N-term) (Cat. #AP9379a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left 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'.