

## Rabbit anti-Human COG2 Polyclonal Antibody | anti-COG2 antibody

COG2 Antibody (N-term)

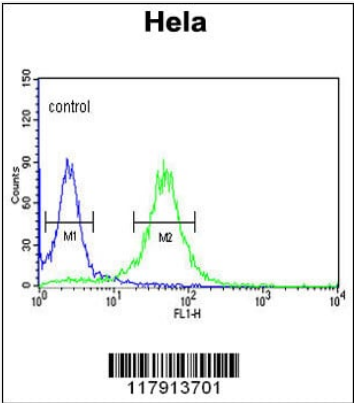
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA288903 | Rabbit | Human      | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

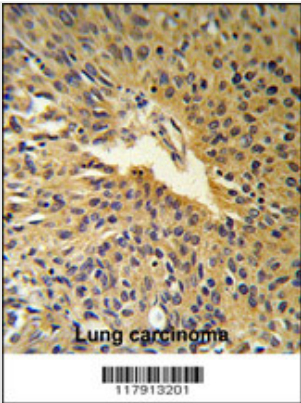
COG2; Polyclonal Antibody; COG2 Antibody (N-term); Conserved oligomeric Golgi complex subunit 2; COG complex subunit 2; Component of oligomeric Golgi complex 2; Low density lipoprotein receptor defect C-complementing protein; LDLC; anti-COG2 antibody

### PRODUCT SPECIFICATIONS

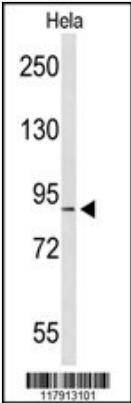
|                                                |                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                       |
| Reactivity                                     | Human                                                                                                                                                                        |
| Clonality                                      | Polyclonal                                                                                                                                                                   |
| Isotype                                        | Rabbit Ig                                                                                                                                                                    |
| 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.          |
| Purity/Purification                            | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                  | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                             | 96-124                                                                                                                                                                       |
| Sequence Length                                | 737                                                                                                                                                                          |
| Applicable Applications for anti-COG2 antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                              |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                 | HUMAN                                                                                                                                                                        |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



**FCM/FACS (Flow Cytometry)**  
COG2 Antibody (N-term) 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.



**IHC (Immunohistochemistry)**  
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.



**WB (Western Blot)**  
Western blot analysis of COG2 Antibody (N-term) in HeLa cell line lysates (35ug/lane). COG2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-COG2 antibody | 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.      |
| Product Categories/Family for anti-COG2 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                  |
| References                                         | Edwards, T.L., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (5), 721-735 (2009)<br>Luke, M.M., et al. Stroke 40(2):363-368(2009)<br>Shiffman, D., et al. Arterioscler. Thromb. Vasc. Biol. 28(1):173-179(2008)<br>Sohda, M., et al. Traffic 8(3):270-284(2007)<br>Ungar, D., et al. Trends Cell Biol. 16(2):113-120(2006) |

NCBI AND UNIPROT INFORMATION

|                           |                             |
|---------------------------|-----------------------------|
| NCBI GI #                 | 223029519                   |
| NCBI GeneID               | 22796                       |
| NCBI Accession #          | NP_001138508.1; NP_031383.1 |
| NCBI GenBank Nucleotide # | NM_001145036.1              |

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| UniProt Accession #              | <a href="#">Q14746; Q86U99</a>                         |
| Molecular Weight                 | 83208                                                  |
| NCBI Official Full Name          | conserved oligomeric Golgi complex subunit 2 isoform 2 |
| NCBI Official Synonym Full Names | component of oligomeric golgi complex 2                |
| NCBI Official Symbol             | COG2                                                   |
| NCBI Official Synonym Symbols    | LDLC                                                   |
| NCBI Protein Information         | conserved oligomeric Golgi complex subunit 2           |
| UniProt Protein Name             | Conserved oligomeric Golgi complex subunit 2           |
| UniProt Gene Name                | <b>COG2</b>                                            |
| UniProt Synonym Gene Names       | LDLC; COG complex subunit 2                            |
| UniProt Entry Name               | COG2_HUMAN                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/cog2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/288903>