

## Recombinant Human COG2 Protein, GST-tagged

**Cat. No.** COG2-1622H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human COG2 full-length ORF (BAG35559.1, 1 a.a. - 738 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene 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. Mutations of this gene are associated with abnormal glycosylation within the Golgi apparatus. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2009] |
| <b>Molecular Mass</b>   | 107.58 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MEKSRMNLPGKPD TLCFDKDEFMKEDFDVDHFVSDCRKRVQLEELRDDLELYYKLL<br>KTAMVELINKDYADFVNLSNVLGMDKALNQLSVPLGQLREEVLSLRSSVSEGIRAV<br>DERMSKQEDIRKKKMCVLR LIQVIRSVEKIEKILNSQSSKETSAL EASSPLLTGQILERI<br>ATEFNQLQFHAVQSKGMPLLDKVRPRIAGITAMLQQSLEGLLLEGLQTSVDIIRHCL<br>RTYATIDKTRDAEALVGQVLVKPYIDEVIEQFVESH P NGLQVMYNKLLFVPHHCRL<br>LREVTGGAISSSEKGNTVPGYDFLVNSVWPQIVQGLEEKLP SLFNPGNPDAFHEKYTI<br>SMDFVRRRLERQCGSQASVKRLRAHPAYHSFNKKWNLPVYFQIRFREIAGSLEAALT                                                                                 |

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DVLEDAPAESPYCLLASHRTWSSLRRCWSDMFLPLLHRLWRLTLQILARYSVFV  
NELSLRPISNESPKEIKKPLVTGSKEPSITQGNTEQSGSPSETKPVVISRTQLVYV  
VADLDKLQEQLPELLEIIPKLEMIGFKNFSSISAALEDSQSSFSACVPSLSSKIIQDLS  
DSCFGFLKSALEVPRLYRRTNKEVPTTASSYVDSALKPLFQLQSGHKDKLKQAIQQ  
WLEGLTSESTHKYYETVSDVLNSVKKMEESLKRLKQARKTTTPANPVGPSGGMSDD  
DKIRLQLALDVEYLGELQKLGLQASDIKSFSALAELVAAAKDQATAEQP

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

COG2 component of oligomeric golgi complex 2 [ Homo sapiens ]

**Official Symbol**

COG2

**Synonyms**

COG2; component of oligomeric golgi complex 2; LDLC, low density lipoprotein receptor defect C complementing; conserved oligomeric Golgi complex subunit 2; COG complex subunit 2; conserved oligomeric Golgi complex protein 2; brefeldin A-sensitive, peripheral Golgi protein; low density lipoprotein receptor defect C complementing; low density lipoprotein receptor defect C-complementing protein; LDLC;

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|                |              |
|----------------|--------------|
| Gene ID        | 22796        |
| mRNA Refseq    | NM_001145036 |
| Protein Refseq | NP_001138508 |
| MIM            | 606974       |
| UniProt ID     | Q14746       |

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