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

COG2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant COG2.
Catalog # AT1578a

Product Information

Application	WB
Primary Accession	Q14746
Other Accession	NM_007357
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3H8
Calculated MW	83208

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	COG2 (NP_031383, 639 a.a. ~ 738 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	COG2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

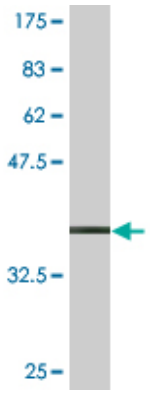
Background

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.

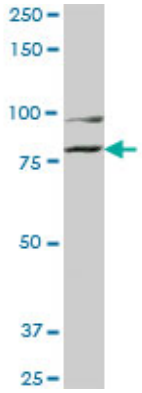
References

An association analysis of Alzheimer disease candidate genes detects an ancestral risk haplotype clade in ACE and putative multilocus association between ACE, A2M, and LRRTM3. Edwards TL, et al. Am J Med Genet B Neuropsychiatr Genet, 2009 Jul 5. PMID 19105203.Gene variants associated with ischemic stroke: the cardiovascular health study. Luke MM, et al. Stroke, 2009 Feb. PMID 19023099.Association of gene variants with incident myocardial infarction in the Cardiovascular Health Study. Shiffman D, et al. Arterioscler Thromb Vasc Biol, 2008 Jan. PMID 17975119.The interaction of two tethering factors, p115 and COG complex, is required for Golgi integrity. Sohda M, et al. Traffic, 2007 Mar. PMID 17274799.Retrograde transport on the COG railway. Ungar D, et al. Trends Cell Biol, 2006 Feb. PMID 16406524.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



COG2 monoclonal antibody (M01), clone 3H8. Western Blot analysis of COG2 expression in IMR-32 ((Cat # AT1578a)