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COG7 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant COG7.
Catalog # AT1580a

Product Information

Application	WB, IF, E
Primary Accession	P83436
Other Accession	BC037563
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3G4-1B3

Additional Information

Other Names	Conserved oligomeric Golgi complex subunit 7, COG complex subunit 7, Component of oligomeric Golgi complex 7, COG7
Target/Specificity	COG7 (AAH37563, 1 a.a. ~ 770 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
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	COG7 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

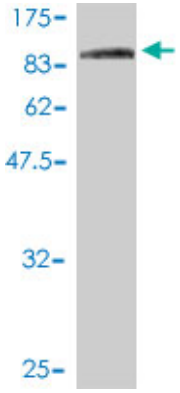
The protein encoded by this gene resides in the golgi, and constitutes one of the 8 subunits of the conserved oligomeric Golgi (COG) complex, which is required for normal golgi morphology and localization. Mutations in this gene are associated with the congenital disorder of glycosylation type IIe.

References

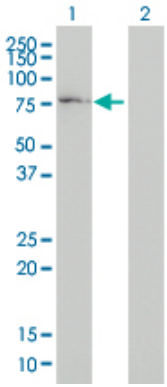
A new mutation in COG7 extends the spectrum of COG subunit deficiencies. Zeevaert R, et al. Eur J Med Genet, 2009 Sep-Oct. PMID 19577670.Direct interaction between the COG complex and the SM protein, Sly1, is required for Golgi SNARE pairing. Laufman O, et al. EMBO J, 2009 Jul 22. PMID 19536132.A common mutation in the COG7 gene with a consistent phenotype including microcephaly, adducted thumbs, growth retardation, VSD and episodes of hyperthermia. Morava E, et al. Eur J Hum Genet, 2007 Jun. PMID 17356545.COG-7-deficient Human Fibroblasts Exhibit Altered Recycling of Golgi Proteins. Steet R, et al. Mol Biol Cell, 2006 May. PMID 16510524.COG complex-mediated recycling of Golgi glycosyltransferases is

essential for normal protein glycosylation. Shestakova A, et al. Traffic, 2006 Feb. PMID 16420527.

Images

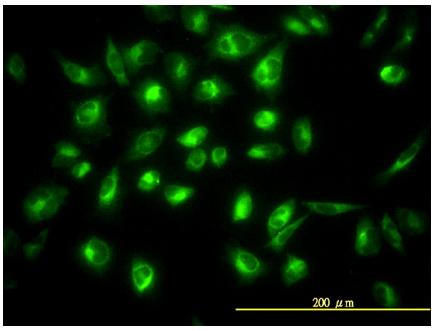


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (110.44 KDa) .

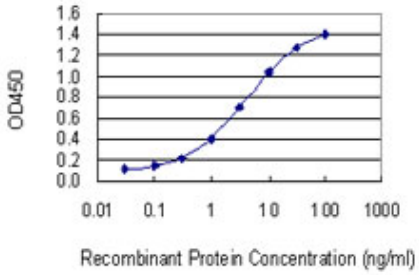


Western Blot analysis of COG7 expression in transfected 293T cell line by COG7 monoclonal antibody (M01), clone 3G4-1B3.

Lane 1: COG7 transfected lysate(65 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to COG7 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged COG7 is 0.03 ng/ml as a capture antibody.