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Datasheet for ABIN2786106
anti-COG4 antibody (Middle Region)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	COG4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COG4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human COG4
Sequence:	TSLVAVELEK VVLKSTFNRL GGLQFDKELR SLIAYLTTVT TWTIRDKFAR
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against COG4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	COG4
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Target Details

Alternative Name: [COG4 \(COG4 Products\)](#)

Background: Multiprotein complexes are key determinants of Golgi apparatus structure and its capacity for intracellular transport and glycoprotein modification. Several complexes have been identified, including the Golgi transport complex (GTC), the LDLC complex, which is involved in glycosylation reactions, and the SEC34 complex, which is involved in vesicular transport. These 3 complexes are identical and have been termed the conserved oligomeric Golgi (COG) complex, which includes COG4. Multiprotein complexes are key determinants of Golgi apparatus structure and its capacity for intracellular transport and glycoprotein modification. Several complexes have been identified, including the Golgi transport complex (GTC), the LDLC complex, which is involved in glycosylation reactions, and the SEC34 complex, which is involved in vesicular transport. These 3 complexes are identical and have been termed the conserved oligomeric Golgi (COG) complex, which includes COG4 (Ungar et al., 2002 [PubMed 11980916]). [supplied by OMIM]. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-265 AK096557.1 1-265 266-555 BP282697.1 230-519 556-1072 AU125729.1 34-550 1073-2838 AL050101.1 375-2140

Alias Symbols: COD1, DKFZp586E1519, CDG2J

Protein Interaction Partner: UBC, EGFR, COG6, VCP, COG7, COG8, COG3, COG5, COG1, RPS20, CUL4B, SEPT2, APC, COG2,

Protein Size: 789

Molecular Weight: 89 kDa

Gene ID: 25839

NCBI Accession: [NM_015386](#), [NP_056201](#)

UniProt: [Q9H9E3](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 789 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

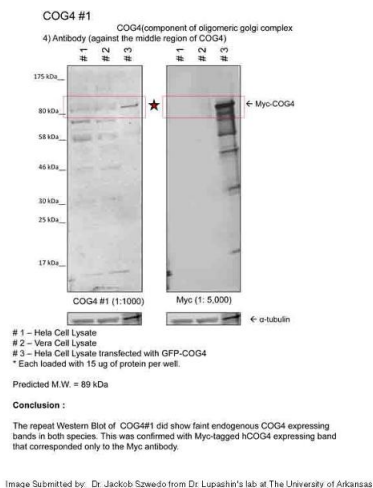
Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry. ..." in: **Molecular systems biology**, Vol. 3, pp. 89, (2007) ([PubMed](#)).

Images



Western Blotting

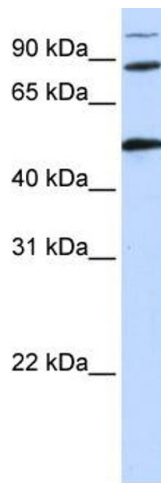
Image 1. Sample Type: 1. Human Cervical Cancer Cell Lysate (15ug)
2. Monkey Fibroblast Cell Lysate (15ug)
3. Human Cervical Cancer Cell transfected with GFP-COG4 (15ug)

Primary Dilution: 1:1000

Secondary Antibody: goat anti-Rabbit

Secondary Dilution: 1:40,000

Image Submitted by: Dr. Jakob Szwedo, Dr. Lupashin's Lab
University of Arkansas for Medical Sciences.



Western Blotting

Image 2. WB Suggested Anti-COG4 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Hela cell lysate