abcam

Product datasheet

Anti-COG7 antibody [EPR9942] ab168362

Recombinant   RabMAb

★★★☆☆ **1 Abreviews**   **1 References**   6 Images

Overview

Product name	Anti-COG7 antibody [EPR9942]
Description	Rabbit monoclonal [EPR9942] to COG7
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IHC-P **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human COG7.
Positive control	MOLT4, HeLa, MCF7, C6, RAW 264.7, PC12, and NIH 3T3 cell lysates; Human brain and kidney tissues; HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9942

Isotype	IgG

Applications

Our **Abpromise guarantee** covers the use of ab168362 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
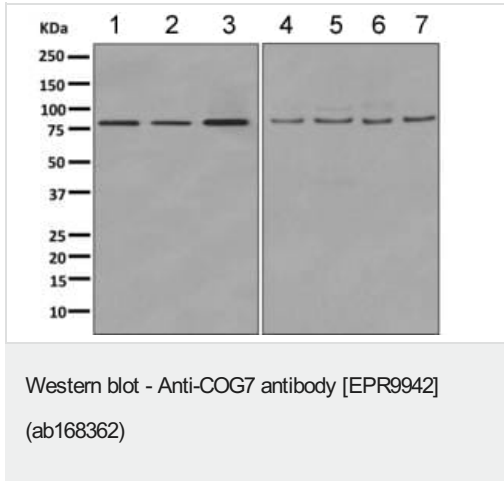
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★☆☆ (1)	1/1000 - 1/5000. Predicted molecular weight: 86 kDa.
ICC/IF		1/100 - 1/250.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes	Is unsuitable for IP.

Target

Function	Required for normal Golgi function.
Involvement in disease	Defects in COG7 are the cause of congenital disorder of glycosylation type 2E (CDG2E) [MIM:608779]. CDGs are a family of severe inherited diseases caused by a defect in protein N-glycosylation. They are characterized by under-glycosylated serum proteins. These multisystem disorders present with a wide variety of clinical features, such as disorders of the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. The broad spectrum of features reflects the critical role of N-glycoproteins during embryonic development, differentiation, and maintenance of cell functions.
Sequence similarities	Belongs to the COG7 family.
Cellular localization	Golgi apparatus membrane.

Images

Western blot - Anti-COG7 antibody [EPR9942] (ab168362)

All lanes : Anti-COG7 antibody [EPR9942] (ab168362) at 1/1000 dilution

Lane 1 : MOlT4 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : MCF7 cell lysate

Lane 4 : C6 cell lysate

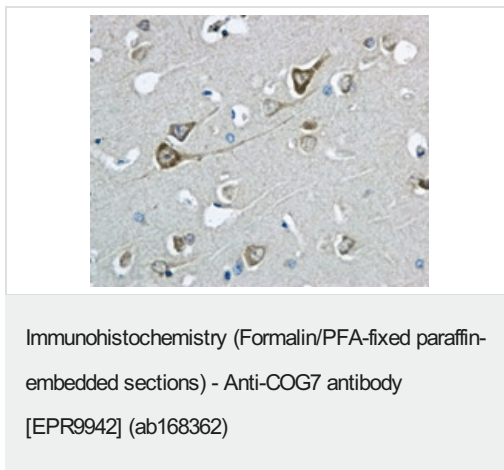**Lane 5 :** RAW 264.7 cell lysate

Lane 6 : PC12 cell lysate

Lane 7 : NIH 3T3 cell lysate
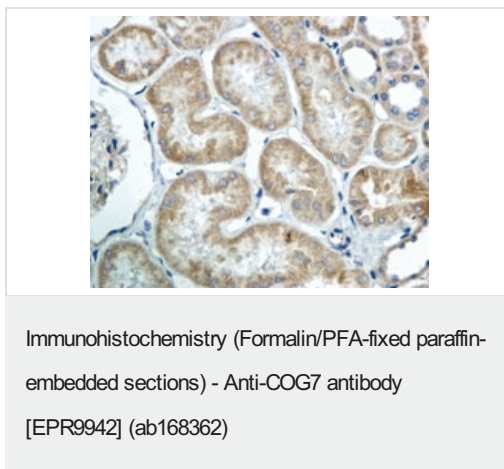
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 86 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COG7 antibody [EPR9942] (ab168362)
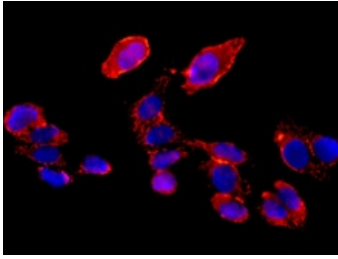
Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling COG7 with ab168362 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COG7 antibody [EPR9942] (ab168362)
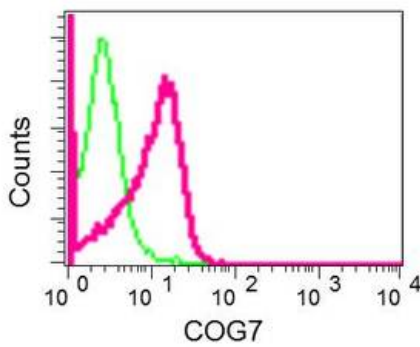
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling COG7 with ab168362 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunofluorescent analysis of HeLa cells labeling COG7 with ab168362 at 1/100 dilution. DAPI nuclear staining (blue).

Immunocytochemistry/ Immunofluorescence - Anti-COG7 antibody [EPR9942] (ab168362)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling COG7 (red) with ab168362 at 1/10 dilution, compared to a nonspecific control antibody (green).

Flow Cytometry (Intracellular) - Anti-COG7 antibody [EPR9942] (ab168362)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-COG7 antibody [EPR9942] (ab168362)

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