

Product datasheet

Anti-COG7 antibody [EPR9942] - BSA and Azide free ab249458

Recombinant RabMAb

6 Images

Overview

Product name	Anti-COG7 antibody [EPR9942] - BSA and Azide free
Description	Rabbit monoclonal [EPR9942] to COG7 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, Flow Cyt (Intra), ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human COG7. The exact sequence is proprietary. Database link: P83436
General notes	<p>ab249458 is the carrier-free version of ab168362.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9942
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249458 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

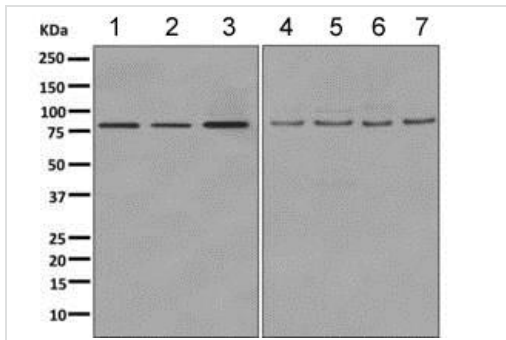
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 86 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

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] - BSA and Azide free (ab249458)

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

Lane 1 : Molt-4 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 : PC-12 cell lysate

Lane 7 : NIH/3T3 cell lysate

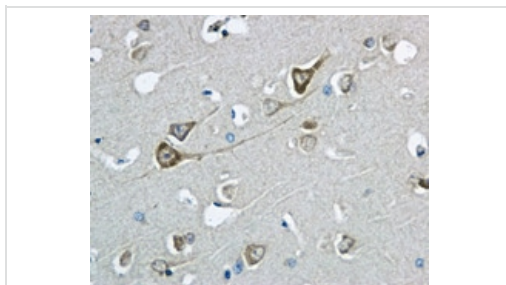
Lysates/proteins at 10 µg per lane.

Secondary

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

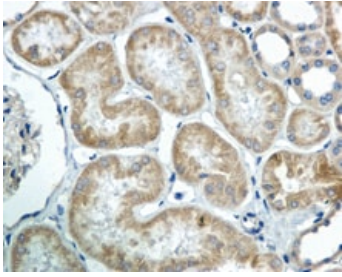
Predicted band size: 86 kDa

This data was developed using [ab168362](#), the same antibody clone in a different buffer formulation.



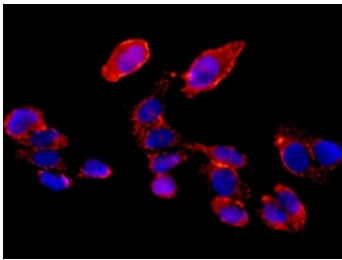
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COG7 antibody [EPR9942] - BSA and Azide free (ab249458)

This data was developed using [ab168362](#), the same antibody clone in a different buffer formulation. 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.



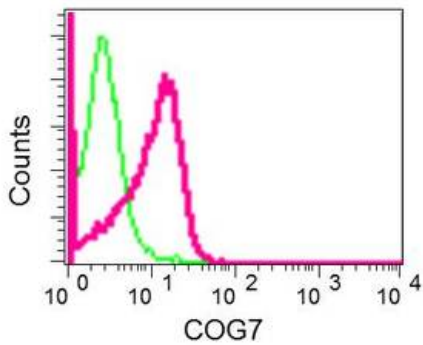
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COG7 antibody [EPR9942] - BSA and Azide free (ab249458)

This data was developed using **ab168362**, the same antibody clone in a different buffer formulation. 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.



Immunocytochemistry/ Immunofluorescence - Anti-COG7 antibody [EPR9942] - BSA and Azide free (ab249458)

This data was developed using **ab168362**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of HeLa cells labeling COG7 with **ab168362** at 1/100 dilution. DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-COG7 antibody [EPR9942] - BSA and Azide free (ab249458)

This data was developed using **ab168362**, the same antibody clone in a different buffer formulation.

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

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] - BSA and Azide free (ab249458)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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