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COG1 Rabbit pAb

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Catalog # AP94508

Product Information

Application	WB, IHC-P, IHC-F, IF
Reactivity	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COG1
Epitope Specificity	501-600/980
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side.
DISEASE	Defects in COG1 are the cause of congenital disorder of glycosylation type 2G (CDG2G) [MIM:611209]; also known as CDG-II caused by COG1 deficiency. CDGs are a family of severe inherited diseases caused by a defect in glycoprotein biosynthesis. They are characterized by under-glycosylated serum glycoproteins. 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. Clinical features of CDG2G include failure to thrive, generalized hypotonia, growth retardation and mild psychomotor retardation. CDG2G is biochemically characterized by a defect in O-glycosylation as well as N-glycosylation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	There are eight COG proteins (COG1-8) which form a Golgi-localized complex (COG) required for normal Golgi morphology and function. It is thought that COG1 is required for steps in the normal medial and trans Golgi-associated processing of glycoconjugates and plays a role in the organization of the Golgi-localized complex.

Additional Information

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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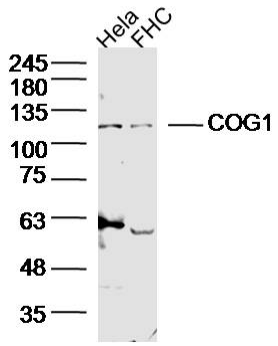
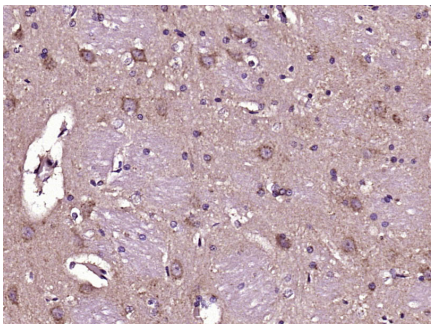
Images



Sample:
Hela Cell (Human) Lysate at 40 ug
FHC Cell (Human) Lysate at 40 ug
Primary: Anti-COG1 (AP94508) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 109 kD
Observed band size: 109 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COG1) Polyclonal Antibody, Unconjugated (AP94508) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.