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Product datasheet for TA336687

FTCD Mouse Monoclonal Antibody [Clone ID: 58K-9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	58K-9
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	Western Blot: 1:2000 - 1:5000, Immunocytochemistry/ Immunofluorescence: 1:50 - 1:250, Immunohistochemistry: 1:100 - 1:200, Immunohistochemistry-Paraffin: 1:100 - 1:200, Immunohistochemistry-Frozen
Reactivity:	Human, Mouse, Rat, Bovine, Canine, Chicken
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	58K Golgi Protein purified from rat liver [UniProt# O88618]
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58 kDa
Gene Name:	formimidoyltransferase cyclodeaminase
Database Link:	NP_996848 Entrez Gene 14317 MouseEntrez Gene 89833 RatEntrez Gene 10841 Human O95954

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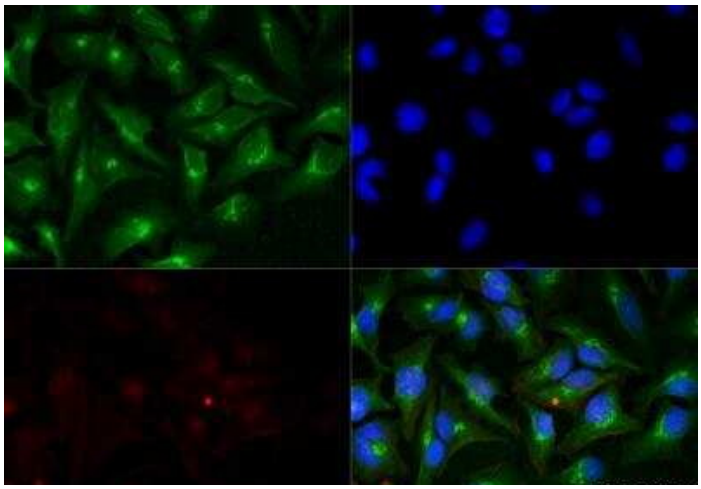
Background: The 58K Golgi protein is one of the most commonly used Golgi markers and has been proposed to implicate in linking Golgi to microtubules and it peripherally associates with cytosolic surface of Golgi membranes. This protein shows extensive overall sequence identity with porcine FTCD and has been suggested to represent rat FTCD (formiminotransferase-cyclodeaminase), a metabolic enzyme involved in the conversion of histidine to glutamic acid. FTCD's formiminotransferase activity facilitate transfer of a a formimino group from N-formimino-L-glutamic acid to tetrahydrofolate to generate glutamic acid and 5-formiminotetrahydrofolate, and the cyclodeaminase activity then converts the 5-formiminotetrahydrofolate to 5,10-methenyl tetrahydrofolate and ammonia. FTCD appears to be a dynamic component of Golgi and cycles between Golgi and earlier compartments of the secretory pathway. It also binds and promotes bundling of vimentin filaments originating from the Golgi, and mutations in this gene encoding for 58K Golgi Protein i.e. FTCD are associated with glutamate formiminotransferase deficiency (FIGLU-URIA).

Synonyms: LCHC1

Note: This 58K Golgi Protein antibody is useful for Immunocytochemistry/Immunofluorescence, Western Blot, and Immunohistochemistry paraffin-embedded sections. In Western blot a band is observed at ~58 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 24505439)

Protein Pathways: Histidine metabolism, Metabolic pathways, One carbon pool by folate

Product images:



Immunocytochemistry/Immunofluorescence: 58K Golgi Protein Antibody (58K-9) TA336687 - HeLa cells, cultured on cover slips, were fixed with 10% formalin for 10 minutes and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were then incubated with 1:200 dilution of anti-58K Golgi Protein antibody (clone 58K-9) for overnight at 4C and detected with an anti-mouse Dylight 488 (Green) secondary at a 1:500 dilution. Alpha tubulin (DM1A) [NB100-690] was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at 1:500 dilution. Nuclei were counterstained with DAPI solution (Blue) [NBP2-31156]. Cells were imaged using a 40X objective. Antibody clone 58K-9 generated a specific signal in the Golgi apparatus of the cells.

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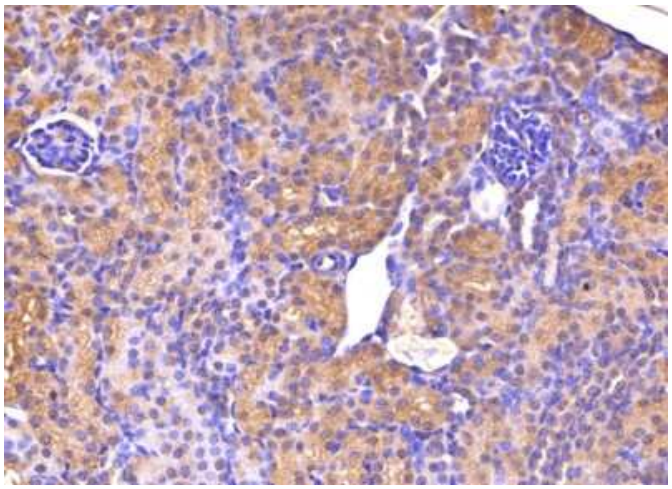
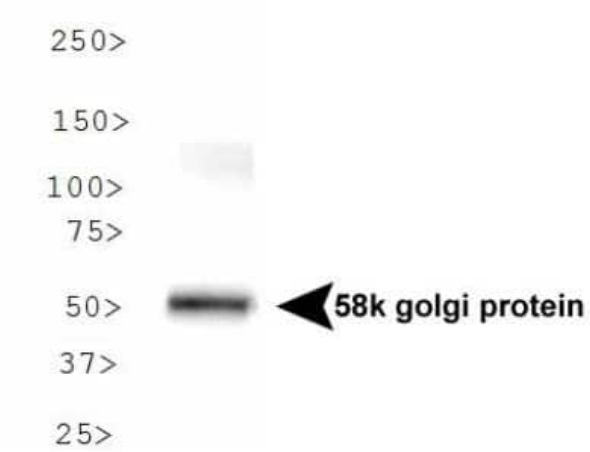


Immunohistochemistry: 58K Golgi Protein Antibody (58K-9) TA336687 - Analysis of 58K Golgi Protein in mouse kidney using DAB with hematoxylin counterstain.



Western Blot: 58K Golgi Protein Antibody (58K-9) TA336687 - Analysis of 58K golgi protein expression in rat liver tissue using TA336687.

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