

**Name: Mouse Monoclonal 58K Golgi Protein Antibody (58K-9)**  
**Product Data Sheet - ANTIBODY****Catalog: TA336687**

<b>Components:</b>	• Mouse Monoclonal 58K Golgi Protein Antibody (58K-9) (TA336687)
<b>Amount:</b>	0.1ml
<b>Immunogen:</b>	58K Golgi Protein purified from rat liver [UniProt# O88618]
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Species Reactivity:</b>	Human, Mouse, Rat, Bovine, Canine, Chicken
<b>Guaranteed Applications:</b>	WB, IHC, IF
<b>Suggested Dilutions:</b>	WB: 1:2000-1:5000, IF: 1:50-1:250, IHC: 1:100-1:200, IHC-P: 1:100-1:200,
<b>Concentration:</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Buffer:</b>	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Purification:</b>	Ascites
<b>Storage Condition:</b>	Shipped at -20C or with ice packs. Upon delivery store at -20C. Dilute in PBS (pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

## Target

<b>Target Name:</b>	formimidoyltransferase cyclodeaminase
<b>Alternative Name:</b>	LCHC1
<b>Database Link:</b>	<a href="#">NP_996848</a> <a href="#">Entrez Gene 10841 Human</a> <a href="#">Entrez Gene 14317 Mouse</a> <a href="#">Entrez Gene 89833 Rat</a> <a href="#">Entrez Gene 0 Monkey</a> <a href="#">Entrez Gene 0 Dog</a>
<b>Function:</b>	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

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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).

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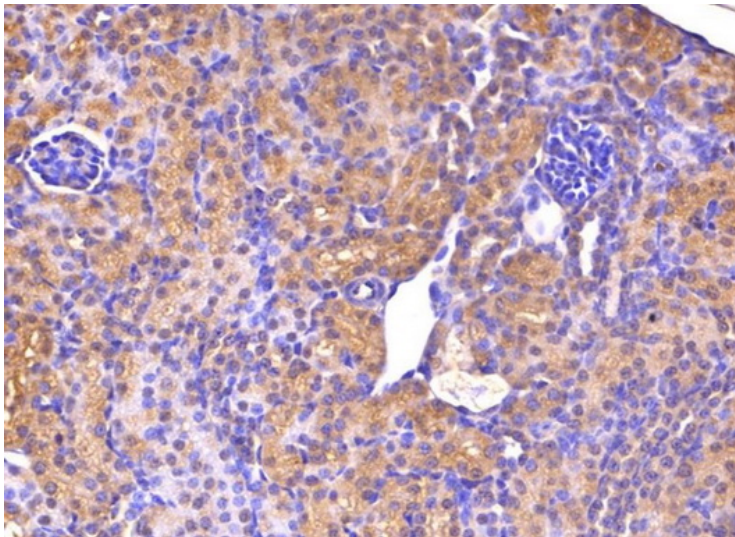
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## Validation Data

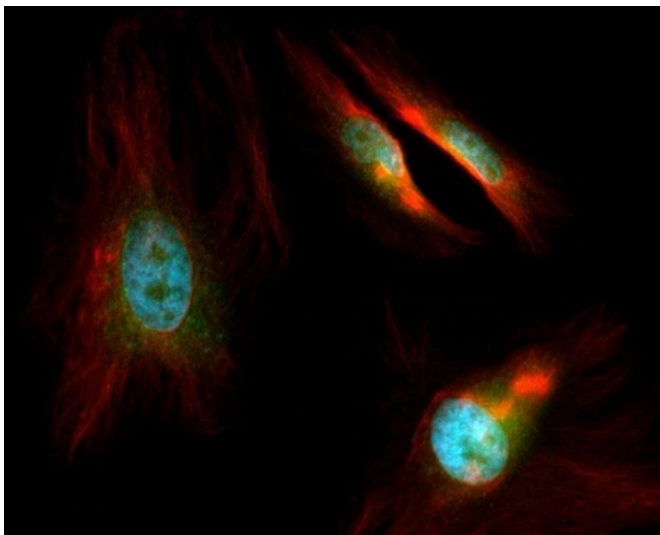
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Western Blot: 58K Golgi Protein Antibody (58K-9) [TA336687] - Analysis of 58K golgi protein expression in rat liver tissue using TA336687.



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



Immunocytochemistry/Immunofluorescence: 58K Golgi Protein Antibody (58K-9) [TA336687] - 58k golgi protein antibody was tested at 1:50 in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and tubulin (red).

\* More validation images may be available on our website: <http://www.origene.com/antibody/TA336687.aspx>

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