

GIF Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12975C

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P27352
Other Accession	NP_005133.2
Reactivity	Human, Mouse
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32460
Calculated MW	45416
Antigen Region	189-218

Additional Information

Gene ID	2694
Other Names	Gastric intrinsic factor, Intrinsic factor, IF, INF, GIF, IFMH
Target/Specificity	This GIF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 189-218 amino acids from the Central region of human GIF.
Dilution	WB~~1:500 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GIF Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CBLIF (HGNC:4268)
Function	Promotes absorption of the essential vitamin cobalamin (Cbl) in the ileum. After interaction with CUBN, the CBLIF-cobalamin complex is internalized via

receptor-mediated endocytosis.

Cellular Location	Secreted.
Tissue Location	Gastric mucosa.

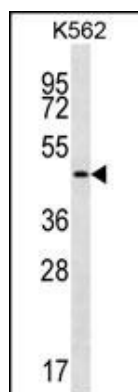
Background

This gene is a member of the cobalamin transport protein family. It encodes a glycoprotein secreted by parietal cells of the gastric mucosa and is required for adequate absorption of vitamin B12. Vitamin B12 is necessary for erythrocyte maturation and mutations in this gene may lead to congenital pernicious anemia.

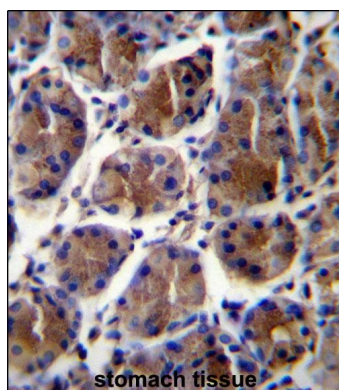
References

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Andersen, C.B., et al. Nature 464(7287):445-448(2010)
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Remacha, A.F., et al. Ann. Hematol. 87(7):599-600(2008)
Mathews, F.S., et al. Proc. Natl. Acad. Sci. U.S.A. 104(44):17311-17316(2007)

Images

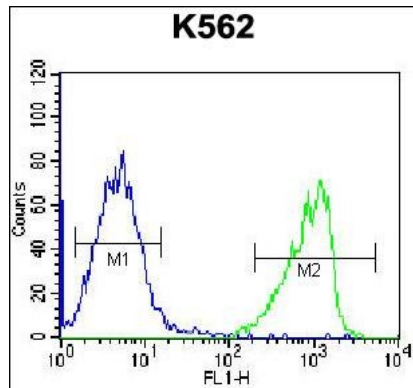
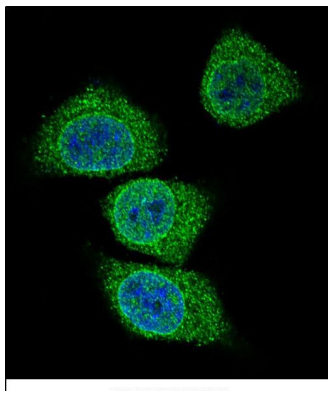


GIF Antibody (Center) (Cat. #AP12975c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the GIF antibody detected the GIF protein (arrow).



GIF Antibody (Center) (Cat. #AP12975c) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GIF Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of GIF Antibody (Center) (Cat#AP12975c) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



GIF Antibody (Center) (Cat. #AP12975c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.