Rabbit anti-Human Intrinsic Factor Monoclonal Antibody | anti-GIF antibody

Recombinant Anti-Intrinsic Factor Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255683	**Rabbit**	**Human**	**Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay**

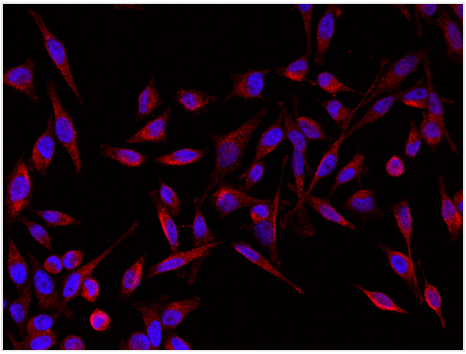
PRODUCT SYNONYMS

Intrinsic Factor; Monoclonal Antibody; Recombinant Anti-Intrinsic Factor Antibody; Rabbit Monoclonal; Gastric intrinsic factor/GIF Antibody; Rabbit MAb; gastric intrinsic factor (vitamin B synthesis); Anti-IF Antibody; Anti-IFMH Antibody; Anti-INF Antibody; Anti-TCN3 Antibody; anti-GIF antibody

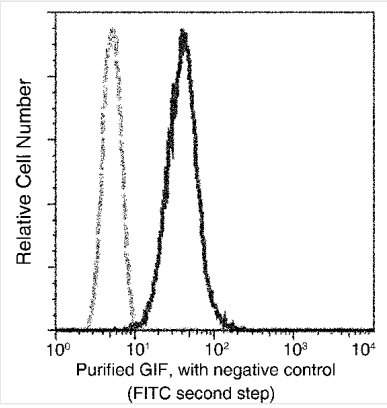
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	007
Specificity	Human Gastric intrinsic factor/GIF
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GIF antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Gastric intrinsic factor/GIF Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Gastric intrinsic factor/GIF (rh Gastric intrinsic factor/GIF).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of GIF in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human GIF monoclonal antibody (dilution ratio 1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human GIF expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen'), stained with purified anti-Human GIF, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-GIF antibody	Gastric intrinsic factor, also known as GIF, belongs to the of the cobalamin transport protein family. It is a glycoprotein produced by the parietal cells of the stomach. Gastric intrinsic factor plays a key role in the absorption of vitamin B12 on in the small intestine. Vitamin B12 bounds to haptocorrin after entry into the stomach. The resulting complex enters the duodenum, where pancreatic enzymes digest haptocorrin. In the less acidic environment of the small intestine, B12 can then bind to gastric intrinsic factor. This new complex travels to the ileum, where special epithelial cells endocytose them. Inside the cell, B12 dissociates once again and binds to another protein, transcobalamin II. The new complex can exit the epithelial cells to enter the liver.
References	Gerdin AK. (2010) The Sanger Mouse Genetics Programme: high throughput characterisation of knockout mice. Acta Opthalmologica. 88:925-7.AU-Berlin H, et al. (1968) ORAL TREATMENT OF PERNICIOUS ANEMIA WITH HIGH DOSES OF VITAMIN B12 WITHOUT INTRINSIC FACTOR. Acta Medica Scandinavica. 184(1-6):247-58.Hewitt JE, et al. (1991) Human gastric intrinsic factor: characterization of cDNA and genomic clones and localization to human chromosome 11. Genomics. 10(2):432-40.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62906845
NCBI GeneID	2694
UniProt Accession #	P27352; B2RAN8; B4DVZ1
Molecular Weight	417
NCBI Official Full Name	Gastric intrinsic factor
NCBI Official Synonym Full Names	gastric intrinsic factor (vitamin B synthesis)
NCBI Official Symbol	GIF
NCBI Official Synonym Symbols	IF; INF; IFMH; TCN3
NCBI Protein Information	gastric intrinsic factor
UniProt Protein Name	Gastric intrinsic factor
UniProt Gene Name	**GIF**
UniProt Synonym Gene Names	IFMH; IF; INF
UniProt Entry Name	IF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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