PAD111Hu02

Polyclonal Antibody to Gastric Intrinsic Factor (GIF)

Organism Species: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PRODUCT INFORMATION]

Immunogen: GIF-KLH

Clonality: Polyclonal

Host: Rabbit

Immunoglobulin Type: IgG

Purification: Affinity Chromatography.

Applications: WB, ICC, IHC-P, IHC-F, ELISA

Concentration: 200μg/mL

UOM: 100μg

[IMMUNOGEN INFORMATION]

Immunogen: Synthetic Peptide, GIF conjugated to KLH.

Accession No.: CPD111Hu31

Sequence: The target peptide sequence is listed below.

QMENWAPSSPNAEASA

[RELEVANCE]

Gastric Intrinsic Factor (GIF), is a glycoprotein produced by the parietal cells of the stomach. It is necessary for the absorption of vitamin B12 (cobalamin) later on in the small intestine. In humans, the gastric intrinsic factor protein is encoded by the GIF gene. The GIF is secreted by the stomach. It is present in the gastric juice as well as in the gastric mucous membrane. In pernicious anemia, which is usually an autoimmune disease, autoantibodies directed against GIF or parietal cells themselves lead to an GIF deficiency, malabsorption of vitamin B12, and

subsequent megaloblastic anemia. Atrophic gastritis can also cause intrinsic factor deficiency and anemia through damage to the parietal cells of the stomach wall.

[ANTIBODY SPECIFITY]

The antibody is a rabbit polyclonal antibody raised against GIF . It has been selected for its ability to recognize GIF in immunohistochemical staining and western blotting.

[APPLICATIONS]

Western blotting: 1:100-400
Immunocytochemistry in formalin fixed cells: 1:100-500
Immunohistochemistry in formalin fixed frozen section: 1:100-500
Immunohistochemistry in paraffin section: 1:50-200
Enzyme-linked Immunosorbent Assay: 1:100-200
Optimal working dilutions must be determined by end user.

[CONTENTS]

Form & Buffer: Supplied as solution form in PBS, pH7.4, containing 0.02% NaN_3, 50% glycerol.

[STORAGE]

Store at 4ºC for frequent use. Stored at -20ºC to -80ºC in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.