

Datasheet for ABIN7154322
anti-GBF1 antibody (AA 1-85)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	GBF1
Binding Specificity:	AA 1-85
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GBF1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA

Product Details

Immunogen:	Recombinant Human Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1 protein (1-85AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	GBF1
Alternative Name:	GBF1 (GBF1 Products)
Background:	Background: Guanine-nucleotide exchange factor (GEF) for members of the Arf family of small

Target Details

GTPases involved in trafficking in the early secretory pathway, its GEF activity initiates the coating of nascent vesicles via the localized generation of activated ARFs through replacement of GDP with GTP. Recruitment to cis-Golgi membranes requires membrane association of Arf-GDP and can be regulated by ARF1, ARF3, ARF4 and ARF5. Involved in the recruitment of the COPI coat complex to the endoplasmic reticulum exit sites (ERES), and the endoplasmic reticulum-Golgi intermediate (ERGIC) and cis-Golgi compartments which implicates ARF1 activation. Involved in COPI vesicle-dependent retrograde transport from the ERGIC and cis-Golgi compartments to the endoplasmic reticulum (ER) (PubMed:16926190, PubMed:17956946, PubMed:18003980, PubMed:12047556, PubMed:12808027, PubMed:19039328, PubMed:24213530). Involved in the trans-Golgi network recruitment of GGA1, GGA2, GGA3, BIG1, BIG2, and the AP-1 adaptor protein complex related to clathrin-dependent transport, the function requires its GEF activity (probably at least in part on ARF4 and ARF5) (PubMed:23386609). Has GEF activity towards ARF1 (PubMed:15616190). Has in vitro GEF activity towards ARF5 (By similarity). Involved in the processing of PSAP (PubMed:17666033). Required for the assembly of the Golgi apparatus (PubMed:12808027, PubMed:18003980). The AMPK-phosphorylated form is involved in Golgi disassembly during mitosis and under stress conditions (PubMed:18063581, PubMed:23418352). May be involved in the COPI vesicle-dependent recruitment of PNPLA2 to lipid droplets, however, this function is under debate (PubMed:19461073, PubMed:22185782). In neutrophils, involved in G protein-coupled receptor (GPCR)-mediated chemotaxis and superoxide production. Proposed to be recruited by phosphatidylinositol-phosphates generated upon GPCR stimulation to the leading edge where it recruits and activates ARF1, and is involved in recruitment of GIT2 and the NADPH oxidase complex (PubMed:22573891).

Aliases: ARF1GEF antibody, BFA resistant GEF 1 antibody, BFA-resistant GEF 1 antibody, FLJ21263 antibody, FLJ21500 antibody, GBF1 antibody, GBF1_HUMAN antibody, golgi brefeldin A resistant guanine nucleotide exchange factor 1 antibody, Golgi specific brefeldin A resistance factor 1 antibody, Golgi specific Brefeldin A-resistance factor antibody, Golgi-specific brefeldin A-resistance guanine nucleotide exchange antibody, Golgi-specific brefeldin A-resistance guanine nucleotide exchange factor 1 antibody, KIAA0248 antibody, MGC134877 antibody, MGC134878 antibody

UniProt: [Q92538](#)

Application Details

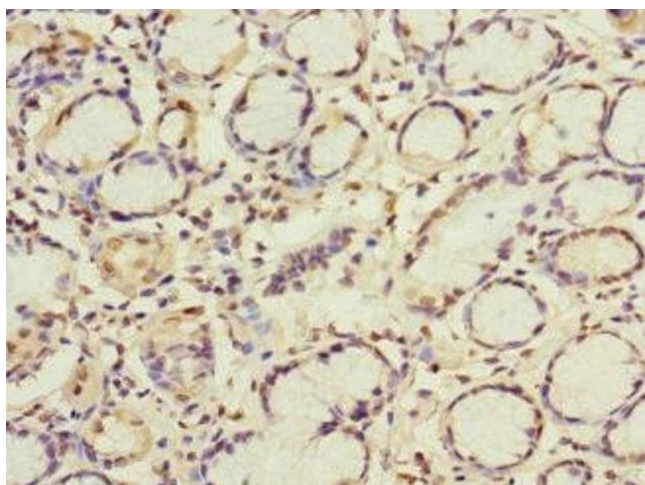
Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

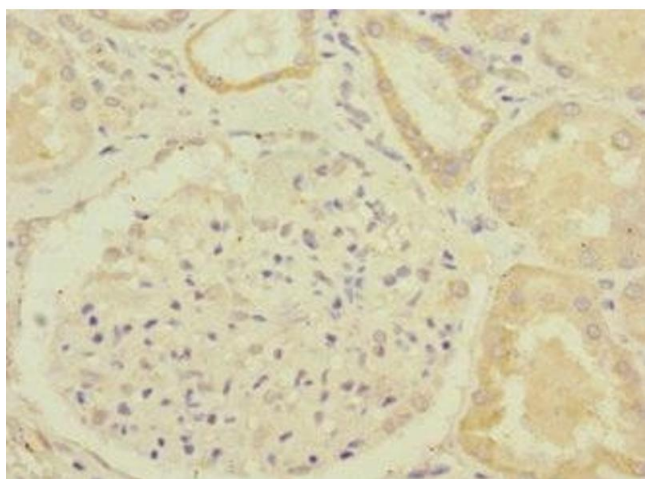
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



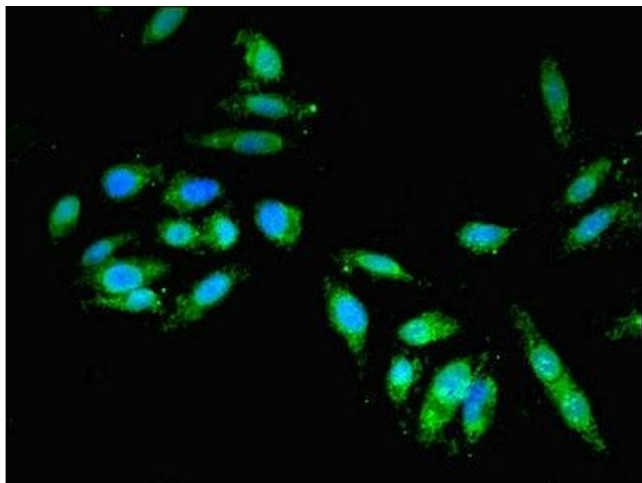
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human gastric cancer using ABIN7154322 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7154322 at dilution of 1:100



Immunofluorescence

Image 3. Immunofluorescent analysis of HeLa cells using ABIN7154322 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)