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GFI1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10032

Product Information

Application	WB
Primary Accession	Q99684
Other Accession	Q99684, NP_005254, NM_005263
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45297

Additional Information

Gene ID	2672
Alias Symbol	ZNF163, SCN2, GFI-1
Other Names	Zinc finger protein Gfi-1, Growth factor independent protein 1, Zinc finger protein 163, GFI1, ZNF163
Target/Specificity	GFI1 may be a transcription factor involved in regulating the expression of genes active in the S phase during cell cycle progression in T-cells. GFI1 may be involved in tumor progression. Defects in GFI1 are a cause of autosomal dominant severe congenital neutropenia (SCN) and dominant nonimmune chronic idiopathic neutropenia of adults (NI-CINA)
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-GFI1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	GFI1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GFI1
Synonyms	ZNF163
Function	Transcription repressor essential for hematopoiesis (PubMed: 11060035, PubMed:17197705, PubMed:17646546, PubMed:18805794,

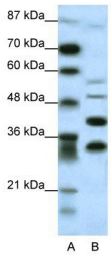
PubMed:19164764, PubMed:20190815, PubMed:8754800). Functions in a cell-context and development-specific manner (PubMed:11060035, PubMed:17197705, PubMed:17646546, PubMed:18805794, PubMed:19164764, PubMed:20190815, PubMed:8754800). Binds to 5'-TAAATCAC[AT]GCA-3' in the promoter region of a large number of genes (PubMed:11060035, PubMed:17197705, PubMed:17646546, PubMed:18805794, PubMed:19164764, PubMed:20190815, PubMed:8754800). Component of several complexes, including the EHMT2-GFI1-HDAC1, AJUBA-GFI1-HDAC1 and RCOR-GFI-KDM1A- HDAC complexes, that suppress, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development (PubMed:16287849). Regulates neutrophil differentiation, promotes proliferation of lymphoid cells, and is required for granulocyte development (PubMed:12778173). Inhibits SPI1 transcriptional activity at macrophage-specific genes, repressing macrophage differentiation of myeloid progenitor cells and promoting granulocyte commitment (By similarity). Mediates, together with U2AF1L4, the alternative splicing of CD45 and controls T-cell receptor signaling (By similarity). Regulates the endotoxin-mediated Toll-like receptor (TLR) inflammatory response by antagonizing RELA (PubMed:20547752). Cooperates with CBFA2T2 to regulate ITGB1-dependent neurite growth (PubMed:19026687). Controls cell-cycle progression by repressing CDKNIA/p21 transcription in response to TGFB1 via recruitment of GFI1 by ZBTB17 to the CDKNIA/p21 and CDKNIB promoters (PubMed:16287849). Required for the maintenance of inner ear hair cells (By similarity). In addition to its role in transcription, acts as a substrate adapter for PRMT1 in the DNA damage response: facilitates the recognition of TP53BP1 and MRE11 substrates by PRMT1, promoting their methylation and the DNA damage response (PubMed:29651020).

Cellular Location Nucleus Note=Colocalizes with PIAS3 and RUNX1T1 in nuclear dots

Background

This is a rabbit polyclonal antibody against GFI1. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).

Images



GFI1 antibody - N-terminal region (AI10032) in Human HepG2 cells using Western Blot
WB Suggested Anti-GFI1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: HepG2 cell lysate

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