Rabbit anti-Human, Mouse GFI1B Polyclonal Antibody | anti-GFI1B antibody

GFI1B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323416	**Rabbit**	**Human, Mouse**	**ELISA, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

GFI1B; Polyclonal Antibody; GFI1B Antibody; GFI 1B; gfi1b; GFI1B protein; GFI1B_HUMAN; Growth factor independent 1B protein; Growth factor independent 1B transcription repressor; Growth factor independent protein 1B; OTTHUMP00000022443; OTTHUMP00000022444; OTTHUMP000000235527; Potential regulator of CDKN1A; Potential regulator of CDKN1A translocated in CML; Translocated in CML; Zinc finger protein Gfi-1b; anti-GFI1B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	GFI1B antibody detects endogenous levels of total GFI1B
Purity/Purification	Peptide affinity purification
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	284
Applicable Applications for anti-GFI1B antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GFI1B, corresponding to a region within the internal amino acids.

IMAGES



IHC (Immunohiostchemistry)
AAA323416 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of GFI1B expression in Jurkat cell lysate;, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GFI1B antibody	Function: Essential proto-oncogenic transcriptional regulator necessary for development and differentiation of erythroid and megakaryocytic lineages. Component of a RCOR-GFI-KDM1A-HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development and controls hematopoietic differentiation. Transcriptional repressor or activator depending on both promoter and cell type context; represses promoter activity of SOCS1 and SOCS3 and thus, may regulate cytokine signaling pathways. Cooperates with GATA1 to repress target gene transcription, such as the apoptosis regulator BCL2L1; GFI1B silencing in leukemic cell lines markedly increase apoptosis rate. Inhibits down-regulation of MYC and MYB as well as the cyclin-dependent kinase inhibitor CDKN1A/P21WAF1 in IL6-treated myelomonocytic cells. Represses expression of GATA3 in T-cell lymphomas and inhibits GATA1-mediated transcription; as GATA1 also mediates erythroid GFI1B transcription, both GATA1 and GFI1B participate in a feedback regulatory pathway controlling the expression of GFI1B gene in erythroid cells. Suppresses GATA1-mediated stimulation of GFI1B promoter through protein interaction. Binds to gamma-satellite DNA and to its own promoter, auto-repressing its own expression. Alters histone methylation by recruiting histone methyltransferase to target genes promoters. Plays a role in heterochromatin formation. Subunit Structure: Component of a RCOR-GFI-KDM1A-HDAC complex. Interacts directly with RCOR1, KDM1A and HDAC2 (By similarity). Forms a complex with GATA1. Interacts with histone methyltransferases EHMT2 and SUV39H1. Interacts with ARIH2 (via RING-type 2). Interacts with RUNX1T1. Post-translational Modifications: Methylation at Lys-8 in the SNAG domain seems required for the recruitment of the corepressor complex. Similarity: The zinc finger domains are essential for erythroid expansion and acts as an activation domain whereas non finger domain serves as repression domain.The SNAG domain of GFIs is required for nuclear location and for interaction with some corepressors.

NCBI AND UNIPROT INFORMATION

NCBI GI #	205277345
NCBI GeneID	8328
NCBI Accession #	NP_001128503.1
NCBI GenBank Nucleotide #	NM_001135031.1
UniProt Accession #	Q5VTD9; O95270; Q5VTD8; Q6FHZ2; Q6T888
Molecular Weight	43 kDa
NCBI Official Full Name	zinc finger protein Gfi-1b isoform 2
NCBI Official Synonym Full Names	growth factor independent 1B transcriptional repressor
NCBI Official Symbol	GFI1B
NCBI Official Synonym Symbols	BDPLT17; ZNF163B
NCBI Protein Information	zinc finger protein Gfi-1b
UniProt Protein Name	Zinc finger protein Gfi-1b
UniProt Gene Name	**GFI1B**

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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