

Datasheet for ABIN1881370
anti-GFI1B antibody (C-Term)[Go to Product page](#)

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Overview

Quantity:	400 µL
Target:	GFI1B
Binding Specificity:	AA 302-330, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GFI1B antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This GFI1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 302-330 amino acids from the C-terminal region of human GFI1B.
Clone:	RB44051
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	GFI1B
Alternative Name:	GFI1B (GFI1B Products)
Background:	Essential proto-oncogenic transcriptional regulator necessary for development and

Target Details

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.

Molecular Weight:	37492
NCBI Accession:	NP_001128503 , NP_004179
UniProt:	Q5VTD9
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

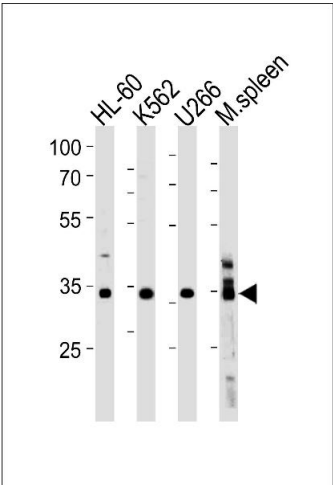
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C

Handling

Expiry Date: 6 months

Publications

- Product cited in: Dai, Liu, Liu, Zhang, Wang, Jin, Qian, Wang, Zhao, Wu, Xiong, Chang, Sun, Yang, Hoffman, Liu: "Anti-metastatic Efficacy of Traditional Chinese Medicine (TCM) Ginsenoside Conjugated to a VEGFR-3 Antibody on Human Gastric Cancer in an Orthotopic Mouse Model." in: **Anticancer research**, Vol. 37, Issue 3, pp. 979-986, (2017) ([PubMed](#)).
- Irrthum, Karkkainen, Devriendt, Alitalo, Vikkula: "Congenital hereditary lymphedema caused by a mutation that inactivates VEGFR3 tyrosine kinase." in: **American journal of human genetics**, Vol. 67, Issue 2, pp. 295-301, (2000) ([PubMed](#)).
- Galland, Karamysheva, Pebusque, Borg, Rottapel, Dubreuil, Rosnet, Birnbaum: "The FLT4 gene encodes a transmembrane tyrosine kinase related to the vascular endothelial growth factor receptor." in: **Oncogene**, Vol. 8, Issue 5, pp. 1233-40, (1993) ([PubMed](#)).
- Pajusola, Aprelikova, Korhonen, Kaipainen, Pertovaara, Alitalo, Alitalo: "FLT4 receptor tyrosine kinase contains seven immunoglobulin-like loops and is expressed in multiple human tissues and cell lines." in: **Cancer research**, Vol. 52, Issue 20, pp. 5738-43, (1992) ([PubMed](#)).
- Galland, Karamysheva, Mattei, Rosnet, Marchetto, Birnbaum: "Chromosomal localization of FLT4, a novel receptor-type tyrosine kinase gene." in: **Genomics**, Vol. 13, Issue 2, pp. 475-8, (1992) ([PubMed](#)).



Western Blotting

Image 1. GFI1B Antibody (C-term) (ABIN1881370 and ABIN2843371) western blot analysis in HL-60,K562, cell line and mouse spleen lysates (35 µg/lane).This demonstrates the GFI1B antibody detected the GFI1B protein (arrow).