

GFI1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GFI1.

Catalog # AT2193a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q99684
Other Accession	NM_005263
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G8
Calculated MW	45297

Additional Information

Gene ID	2672
Other Names	Zinc finger protein Gfi-1, Growth factor independent protein 1, Zinc finger protein 163, GFI1, ZNF163
Target/Specificity	GFI1 (NP_005254, 1 a.a. ~ 91 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GFI1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

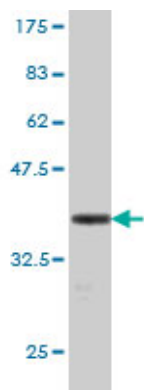
Background

This gene encodes a nuclear zinc finger protein that functions as a transcriptional repressor. This protein plays a role in diverse developmental contexts, including hematopoiesis and oncogenesis. It functions as part of a complex along with other cofactors to control histone modifications that lead to silencing of the target gene promoters. Mutations in this gene cause autosomal dominant severe congenital neutropenia, and also dominant nonimmune chronic idiopathic neutropenia of adults, which are heterogeneous hematopoietic disorders that cause predispositions to leukemias and infections. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene.

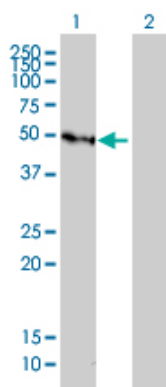
References

Tag-SNP analysis of the GFI1-EVI5-RPL5-FAM69 risk locus for multiple sclerosis. Alcina A, et al. Eur J Hum Genet, 2010 Jul. PMID 20087403. A variant allele of Growth Factor Independence 1 (GFI1) is associated with acute myeloid leukemia. Khandanpour C, et al. Blood, 2010 Mar 25. PMID 20075157. The growth factor independence-1 (Gfi1) is overexpressed in chronic myelogenous leukemia. Huang M, et al. Acta Haematol, 2010. PMID 19887785. Contributions to neutropenia from PFAAP5 (N4BP2L2), a novel protein mediating transcriptional repressor cooperation between Gfi1 and neutrophil elastase. Salipante SJ, et al. Mol Cell Biol, 2009 Aug. PMID 19506020. Gfi-1 represses CDKN2B encoding p15INK4B through interaction with Miz-1. Basu S, et al. Proc Natl Acad Sci U S A, 2009 Feb 3. PMID 19164764.

Images

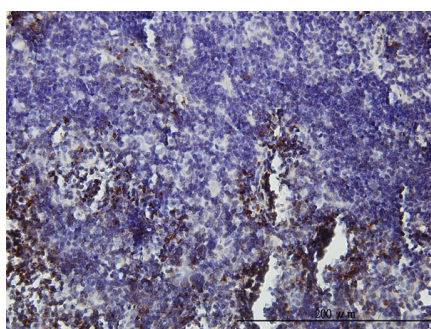


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.75 KDa) .

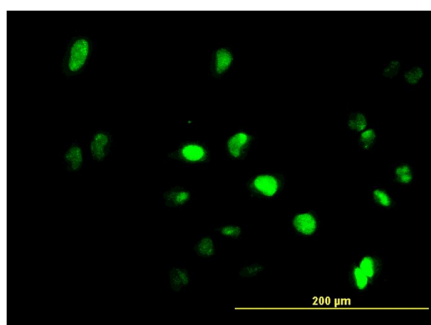


Western Blot analysis of GFI1 expression in transfected 293T cell line by GFI1 monoclonal antibody (M01), clone 3G8.

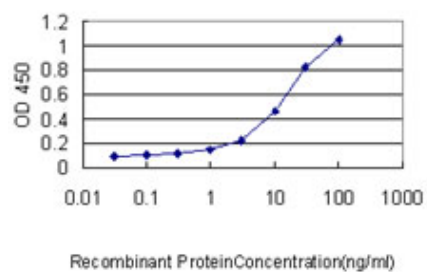
Lane 1: GFI1 transfected lysate (45 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to GFI1 on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to GFI1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged GFI1 is approximately 0.3ng/ml as a capture antibody.

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