

KLF1 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant KLF1.

Catalog # AT2625a

Product Information

Application	WB, IF, E
Primary Accession	Q13351
Other Accession	NM_006563
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	5G12
Calculated MW	38221

Additional Information

Gene ID	10661
Other Names	Krueppel-like factor 1, Erythroid krueppel-like transcription factor, EKLF, KLF1, EKLF
Target/Specificity	KLF1 (NP_006554, 183 a.a. ~ 237 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	KLF1 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

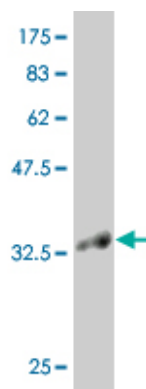
This gene encodes a hematopoietic-specific transcription factor that induces high-level expression of adult beta-globin and other erythroid genes. The zinc-finger protein binds to the DNA sequence CCACACCCT found in the beta hemoglobin promoter. Heterozygous loss-of-function mutations in this gene result in the dominant In(Lu) blood phenotype.

References

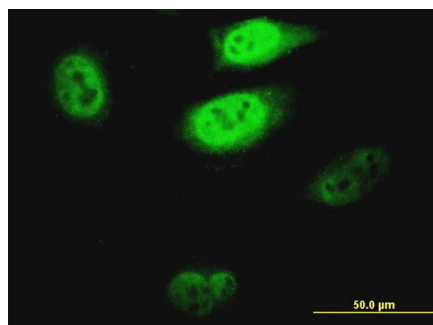
Haploinsufficiency for the erythroid transcription factor KLF1 causes hereditary persistence of fetal hemoglobin. Borg J, et al. Nat Genet, 2010 Sep. PMID 20676099.KLF1 regulates BCL11A expression and

gamma- to beta-globin gene switching. Zhou D, et al. Nat Genet, 2010 Sep. PMID 20676097. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Multiple loci influence erythrocyte phenotypes in the CHARGE Consortium. Ganesh SK, et al. Nat Genet, 2009 Nov. PMID 19862010. Distinct modes of gene regulation by a cell-specific transcriptional activator. Sengupta T, et al. Proc Natl Acad Sci U S A, 2009 Mar 17. PMID 19251649.

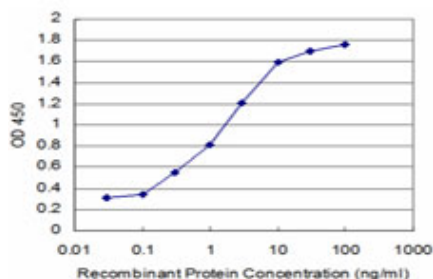
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.79 KDa) .



Immunofluorescence of monoclonal antibody to KLF1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged KLF1 is approximately 0.1 ng/ml as a capture antibody.

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