

KLF1 Antibody (monoclonal) (M05)**Mouse monoclonal antibody raised against a partial recombinant KLF1.****Catalog # AT2626a****Specification**

KLF1 Antibody (monoclonal) (M05) - Product Information

Application	WB, E
Primary Accession	Q13351
Other Accession	NM_006563
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG3 Kappa
Calculated MW	38221

KLF1 Antibody (monoclonal) (M05) - 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

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) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

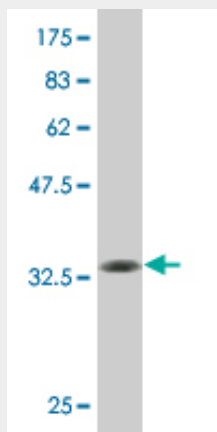
KLF1 Antibody (monoclonal) (M05) - Protocols

Provided below are standard protocols that you may find useful for product applications.

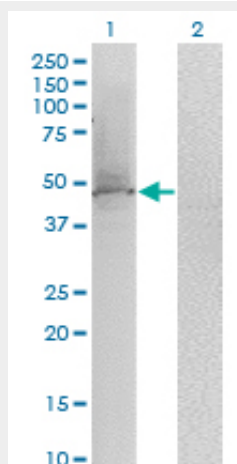
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KLF1 Antibody (monoclonal) (M05) - Images



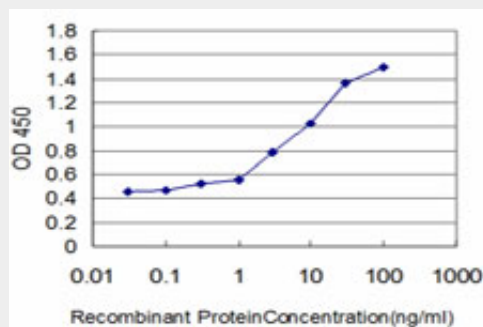
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.79 KDa) .



Western Blot analysis of KLF1 expression in transfected 293T cell line by KLF1 monoclonal antibody (M05), clone 2A6.

Lane 1: KLF1 transfected lysate (Predicted MW: 38.2 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged KLF1 is approximately 0.3ng/ml as a capture antibody.

KLF1 Antibody (monoclonal) (M05) - 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.

KLF1 Antibody (monoclonal) (M05) - 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.