

**KLF1 Antibody (monoclonal) (M04)**

Mouse monoclonal antibody raised against a partial recombinant KLF1.

Catalog # AT2625a

**Specification**

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**KLF1 Antibody (monoclonal) (M04) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">O13351</a>
Other Accession	<a href="#">NM_006563</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG3 Kappa
Calculated MW	38221

**KLF1 Antibody (monoclonal) (M04) - 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) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

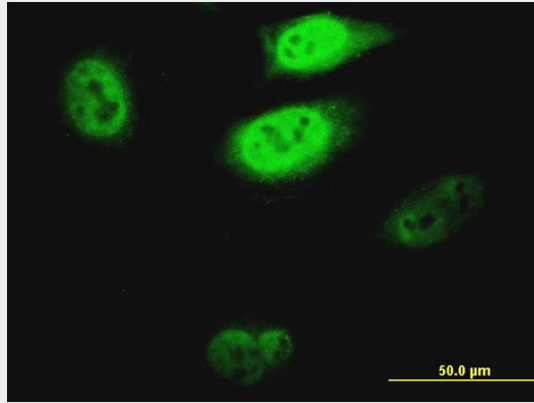
**KLF1 Antibody (monoclonal) (M04) - Protocols**

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

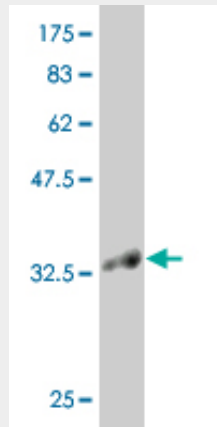
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

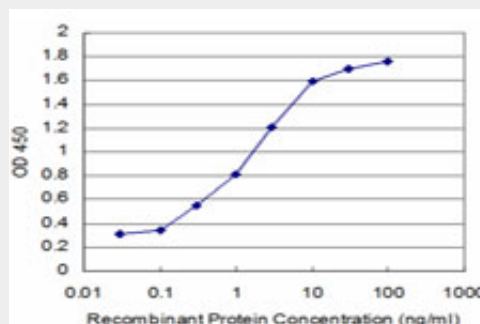
**KLF1 Antibody (monoclonal) (M04) - Images**



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



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



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

**KLF1 Antibody (monoclonal) (M04) - 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) (M04) - 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.