

# Datasheet for ABIN6655944

# anti-KLF4 antibody (N-Term)





#### Go to Product page

_					
( )	VE	۲۱د	/1/	$\square$	٨.

Quantity:	100 μg
Target:	KLF4
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLF4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

## **Product Details**

Purpose:	KLF4 Antibody	
Immunogen:	Anti-KLF4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a N-Term portion of human KLF4 conjugated to Keyhole Limpet Hemocyanin (KLH).	
Isotype:	IgG	
Cross-Reactivity (Details):	This affinity purified antibody is directed against human KLF4.	
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity purification.	
Sterility:	Sterile filtered	

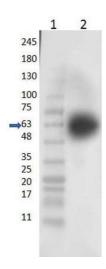
# **Target Details**

Target:	KLF4		
Alternative Name:	KLF4 (KLF4 Products)		
Background:	Synonyms: rabbit anti-KLF4 antibody, KLF-4 Antibody, Krueppel-like factor 4, Epithelial zinc		
	finger protein EZF, EZF, Gut-enriched krueppel-like factor, GKLF, KLF 4		
	Background: KLF4 belong to the Kruppel like factors/Zinc fingers C2H2-type family. This gene		
	encodes a protein that belongs to the Kruppel family of transcription factors. KLF4 can act both		
	as activator and as repressor. It can bind the 5-CACCC-3 core sequence, the promoter region of		
	its own gene, and can activate its own transcription. KLF4 regulates the expression of key		
	transcription factors during embryonic development, playing an important role in maintaining		
	embryonic stem cells, and in preventing their differentiation. This protein is required for normal		
	development of the barrier function of skin postnatal, maintenance of the ocular surface,		
	function in skeletal and kidney development, and thought to control the G1-to-S transition of the		
	cell cycle following DNA damage by mediating the tumor suppressor gene p53. KLF4 may be		
	associated with diseases such as Venous Hemangioma, Skin Squamous Cell Carcinoma, and		
	pediatric lymphoma. Anti-KLF4 Antibody is useful for researchers interested in Peptide		
	hormone metabolism, Stem Cell Differentiation Pathway Research, Wnt/Notch Pathway		
	Research, and Cancer Research.		
	Gene Name: KLF4		
Gene ID:	9314		
NCBI Accession:	NP_001300981		
UniProt:	043474		
Pathways:	Peptide Hormone Metabolism, Stem Cell Maintenance		
Application Details			
Application Notes:	Immunoprecipitation_Dilution: User Optimized		
	ELISA_Dilution: 5 μg/mL		
	Immunohistochemistry_Dilution: 1:200		
	Flow_Cytometry_Dilution: User Optimized		
	IF_Microscopy_Dilution: 10 μg/mL		
	Western_Blot_Dilution: 1 μg/mL		
Comment:	Anti-KLF4 Antibody has been tested in Western Blot, ELISA, and Immunofluorescence. Expect a		
	band at $\sim$ 54.7 kDa in western blot using appropriate lysates. Positive control whole cell lysates		
	NCCIT and PC3 @ 1µg/mL for WB, and PC3 with PFA at 10µg/mL in IF. Although not tested,		

## **Application Details**

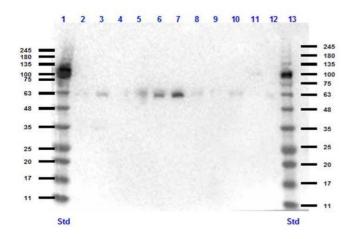
	this antibody is likely functional in immunohistochemistry, flow cytometry, and immunoprecipitation.		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide		
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		
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.		
Expiry Date:	12 months		

#### **Images**



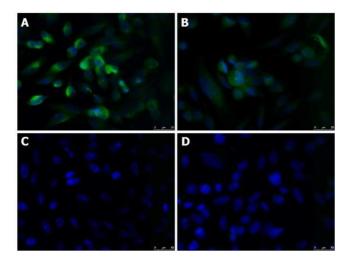
### **Western Blotting**

Image 1. Western Blot of Rabbit Anti-KLF4 Antibody - Western Blot of Rabbit Anti-KLF4 Antibody. Lane 1: Opal Prestained Molecular Weight Ladder. Lane 2: NCCIT Whole Cell Lysate. Load: 30μg lysate. Primary Antibody: Rabbit Anti-KLF4 at 1μg/mL overnight at 4°C. Secondary Antibody: Goat Anti-Rabbit HRP Antibody at 1:10,000 at RT for 1hr. Block: BLOTTO. Predicted/Observed size: ~55 kDa for KLF4.



#### **Western Blotting**

Image 2. Western Blot of Rabbit anti-KLF4 antibody Western Blot of Rabbit anti-KLF4 antibody. Lane 1: MW ladder (opal pre-stained) p/n (MB-210-0500). Lane 2: U-87 WCL. Lane 3: C2C12 WCL. Lane 4: NIH/3T3 WCL. Lane 5: THP-1 WCL. Lane 6: J774A.1 WCL. Lane 7: PC-3 WCL. Lane 8: HT-29 WCL. Lane 9: Mouse colon. Lane 10: A549 WCL. Lane 11: MOLT-4 WCL. Lane 12: HeLa WCL. Lane 13: MW ladder (opal pre-stained) p/n (MB-210-0500). Load: 10 μg per lane. Primary antibody: KLF4 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary HRP antibody at 1:70,000 for 1 hr at RT. Block: BlockOut % BLOTTO) 30 min at RT. Predicted/Observed size: ~55 kDa for KLF4.



#### **Immunofluorescence**

Image 3. Immunofluorescence Microscopy of Rabbit anti-KLF4 antibody Immunofluorescence Microscopy of Rabbit anti-KLF4 antibody. Tissue: PC-3. Fixation: 0.5% PFA [A,C]. 0.5% MeOH [B, D]. Antigen retrieval: not required. Primary antibody: KLF4 antibody at 10 μg/mL for 1 h at RT. Secondary antibody: Anti-RABBIT IgG 488 Conjugated Preadsorbed at 5 μg/ml for 1 h at RT. Localization: cytoplasmic and nuclear Staining: Target as green fluorescent signal with DAPI (blue) nuclear counterstain.