

# **Human KLF2 APC-conjugated Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 665333

Catalog Number: IC5466A

25 Tests

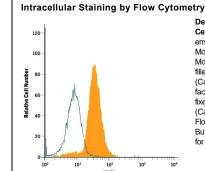
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human KLF2 in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant human (rh) KLF17 and	
	no cross-reactivity with rhKLF1, 4, 5, 6, 10, 12, recombinant mouse KLF4 or 15 is observed.	
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 665333	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human KLF2	
	Pro71-Pro168 (predicted)	
	Accession # Q9Y5W3	
Conjugate	Allophycocyanin	
	Excitation Wavelength: 620-650 nm	
	Emission Wavelength: 660-670 nm	
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet	
	(SDS) for additional information and handling instructions.	

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

#### DATA



Detection of KLF2 in BG01V Human Cells by Flow Cytometry. BG01V human embryonic stem cells were stained with Mouse Anti-Human KLF2 APC-conjugated Monoclonal Antibody (Catalog # IC5466A, filled histogram) or isotype control antibody (Catalog # IC0041A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

KLF2 (Kruppel-Like Factor 2), also known as LKLF, is a lung-associated, 37 kDa member of the Kruppel C2H2-type zinc-finger protein family. KLF2 is found in airway epithelium, endothelium, monocytes, T and B cells. It is a transcription factor that regulates multiple genes, many of which are involved in cell migration. Human KLF2 is 355 amino acids (aa) in length. It contains an activation domain (aa 1-110), an inhibitory domain (aa 111-267), and three C2H2-type zinc-finger regions (aa 272-354). There is one potential splice form that shows a premature truncation after Asp224. Over aa 71-168, human KLF2 is 82% aa identical to mouse KLF2.

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