Human KLF2 PE-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 665333

Catalog Number: IC5466P

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_{2B} 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	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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.

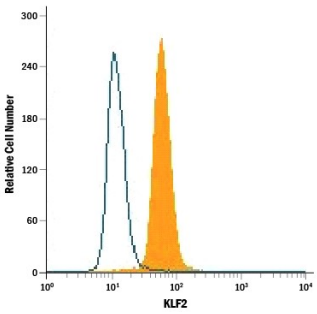
APPLICATIONS

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/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of KLF2 in BG01V Human Cells by Flow Cytometry. BG01V human embryonic stem cells were stained with Mouse Anti-Human KLF2 PE-conjugated Monoclonal Antibody (Catalog # IC5466P, filled histogram) or isotype control antibody (Catalog # IC0041P, 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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