Human KLF2 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 665333

Catalog Number: IC5466G

100 µg

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, 17, 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	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10^6 cells	BG01V human embryonic stem cells fixed with paraformaldehyde and permeabilized with saponin

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 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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