

DESCRIPTION

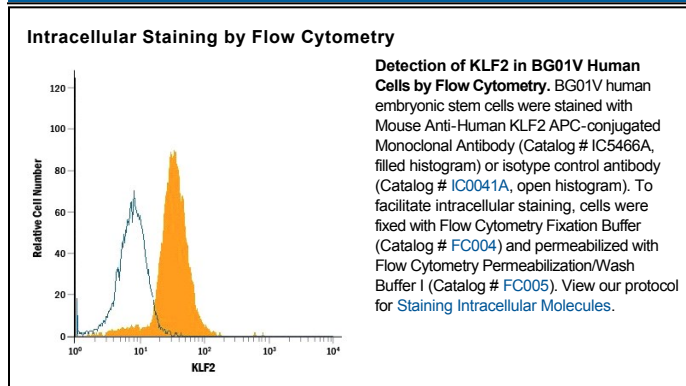
Species Reactivity	Human
Specificity	Detects human KLF2 in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant human (rh) KLF17 and no cross-reactivity with rhKLF1, 4, 5, 6, 10, 12, recombinant mouse KLF4 or 15 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 665333
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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 μ L/10 ⁶ cells	See Below

DATA



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.