

DESCRIPTION

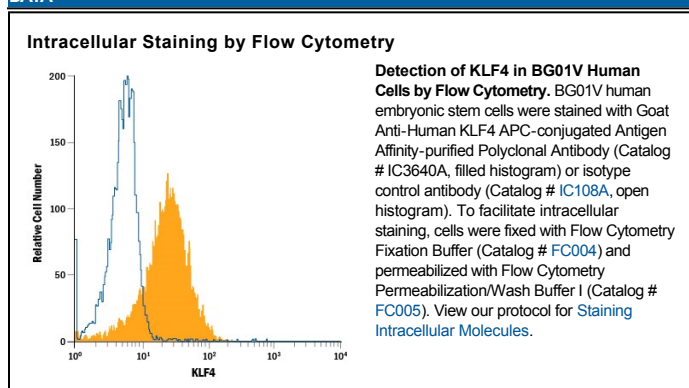
| | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human KLF4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows approximately 50% cross-reactivity with recombinant mouse (rm) KLF4 and less than 1% cross-reactivity with recombinant human (rh) KLF5, rhKLF6, and rmKLF15. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human KLF4 Ala2-Phe470 Accession # AAH29923 |
| 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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

Human KLF4, also known as Epithelial Zinc Finger protein (EZF), is a 53 kDa (470 aa) member of the kruppel C2H2-type zinc finger protein family. It contains three C2H2-type zinc fingers at the carboxyl terminus that preferentially bind to cis-DNA elements that are GC rich. KLF4 regulates the expression of target genes that are involved in different cellular functions. KLF4 is highly expressed in the epithelial cells of the skin and the gastrointestinal tract. Human and mouse KLF4 share 90% amino acid sequence identity.