SunLong Biotech Co.,LTD
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# Rabbit Anti-KLF4 antibody

SL24533R

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|---|---|
| **Product Name** | KLF4 |
| **Chinese Name** | 肠道内富含的 Kruppel 样因子/上皮 Zinc finger protein4 抗体 |
| **Alias** | Endothelial Kruppel like zinc finger protein; EZF; GKLF; KLF; Kruppel like factor 4 (Epithelial zinc finger protein EZF) (Gut enriched Krueppel like factor); Kruppel like factor 4 (gut); Krueppel-like factor 4;EZF;GKLF;KLF 4;KLF-4;Krueppel like factor 4; KLF4_HUMAN. |
| **Research Area** | Tumour Cell biology Signal transduction Stem cells Cyclin transcriptional regulatory factor |
| **Immunogen Species** | Rabbit |
| **Clonality** | Polyclonal |
| **React Species** | Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, ) |
| **Applications** | WB=1:500-2000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 56kDa |
| **Cellular localization** | The nucleus |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **immunogen** | KLH conjugated synthetic peptide derived from human KLF4: 1-100/513 |
| **Lsotype** | IgG |
| **Purification** | affinity purified by Protein A |
| **Buffer Solution** | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| **Storage** | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Attention** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **PubMed** | PubMed |
| **Product Detail** | KLF4 is a transcription factor that works with Sp1 to activate the Laminin |

gamma1 chain gene. It binds the CACCC core sequence. KLF4 may be involved in the differentiation of epithelial cells and may also function in the development of the skeleton and kidney. KLF4 also has roles as both an oncogene and a tumor suppressor.

**Function:**
Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription.

**Subunit:**
Interacts with POU5F1/OCT4 and SOX2. Interacts with MUC1 (via the C-terminal domain).

**Subcellular Location:**
Nucleus.

**Post-translational modifications:**
Ubiquitinated. Polyubiquitination involves WWP1 and leads to proteasomal degradation of this protein.

**Similarity:**
Belongs to the krueppel C2H2-type zinc-finger protein family.

**SWISS:**
O43474

**Gene ID:**
9314

**Database links:**

Entrez Gene: 9314 Human

Entrez Gene: 16600 Mouse

Omim: 602253 Human

SwissProt: O43474 Human

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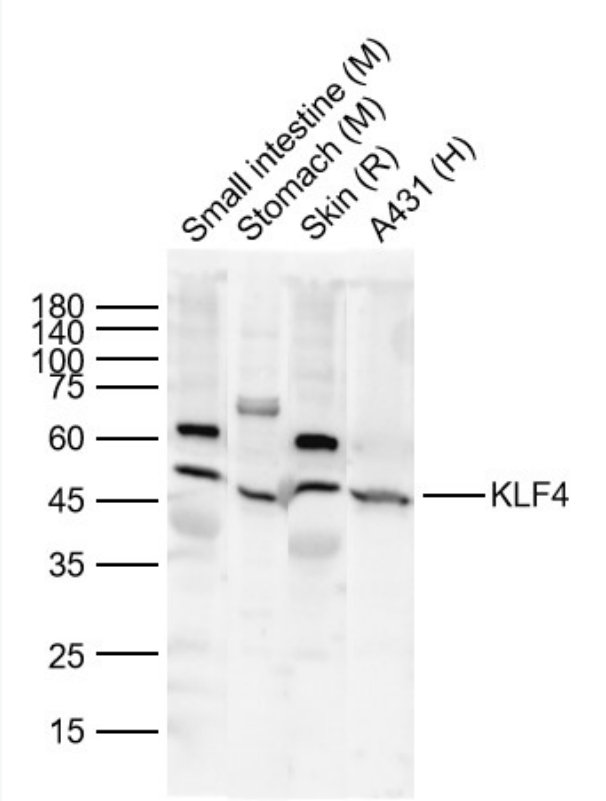
SwissProt: Q60793 Mouse

Unigene: 376206 Human

Unigene: 4325 Mouse

Klf4（原称 GKLF）调节体外細胞的增生与分化，有学者认为：KLF4 可能参与消化系统 Tumour 的发生及发展过程，多表达与结肠。又称：上皮锌指转录因子（上皮 Zinc finger protein）Surface skin layer zinc finger protein。

**Product Picture**




Sample:

Lane 1: Mouse Small intestine Lysates

Lane 2: Mouse Stomach Lysates

Lane 3: Rat Skin Lysates

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Lane 4: Human A431 cell Lysates

Primary: Anti-KLF4 (SL24533R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 56kDa

Observed band size: 56kDa