

Anti-Kruppel-like factor 4 KLF4 Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PA2211-Fluoro594

About KLF4

Kruppel-like factor 4, also known as EZF or GKLF, is a protein that in humans is encoded by the KLF4 gene. This gene is mapped to 9q31.2. KLF4 gene encodes a member of the Kruppel family of transcription factors. This gene plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. It is required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. This gene involved in the differentiation of epithelial cells and may also function in skeletal and kidney development.

Overview

Product Name	Anti-Kruppel-like factor 4 KLF4 Antibody Picoband® Fluoro594 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	O43474

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human KLF4, identical to the related mouse and rat sequences.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594 Excitation Wavelength: 593 nm Emission Wavelength: 618 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

4 Publications Citing This Product

1. PubMed ID: 31933825, Deng S,Zhang Y,Wang Y,Lu X,Jiang Q.MicroRNA-92 regulates vascular smooth muscle cell function by targeting KLF4 during vascular restenosis and injury.Int J Clin Exp Pathol.2019 Dec 1;12(12):4253-4262.PMID:31933825;PMCID:PMC6949870.

2. PubMed ID: 33069797, Shi R,Liu L,Wang F,He Y,Niu Y,Wang C,Zhang X,Zhang X,Zhang H,Chen M,Wang Y.Downregulation of cytokeratin 18 induces cellular partial EMT and stemness through increasing EpCAM expression in breast cancer.Cell Signal.2020 Dec;76:109810.doi:10.1016/j.cellsig

3. PubMed ID: 26938105, CHIR99021 enhances Klf4 Expression through β -Catenin Signaling and miR-7a Regulation in J1 Mouse Embryonic Stem Cells

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